

FIG. 1

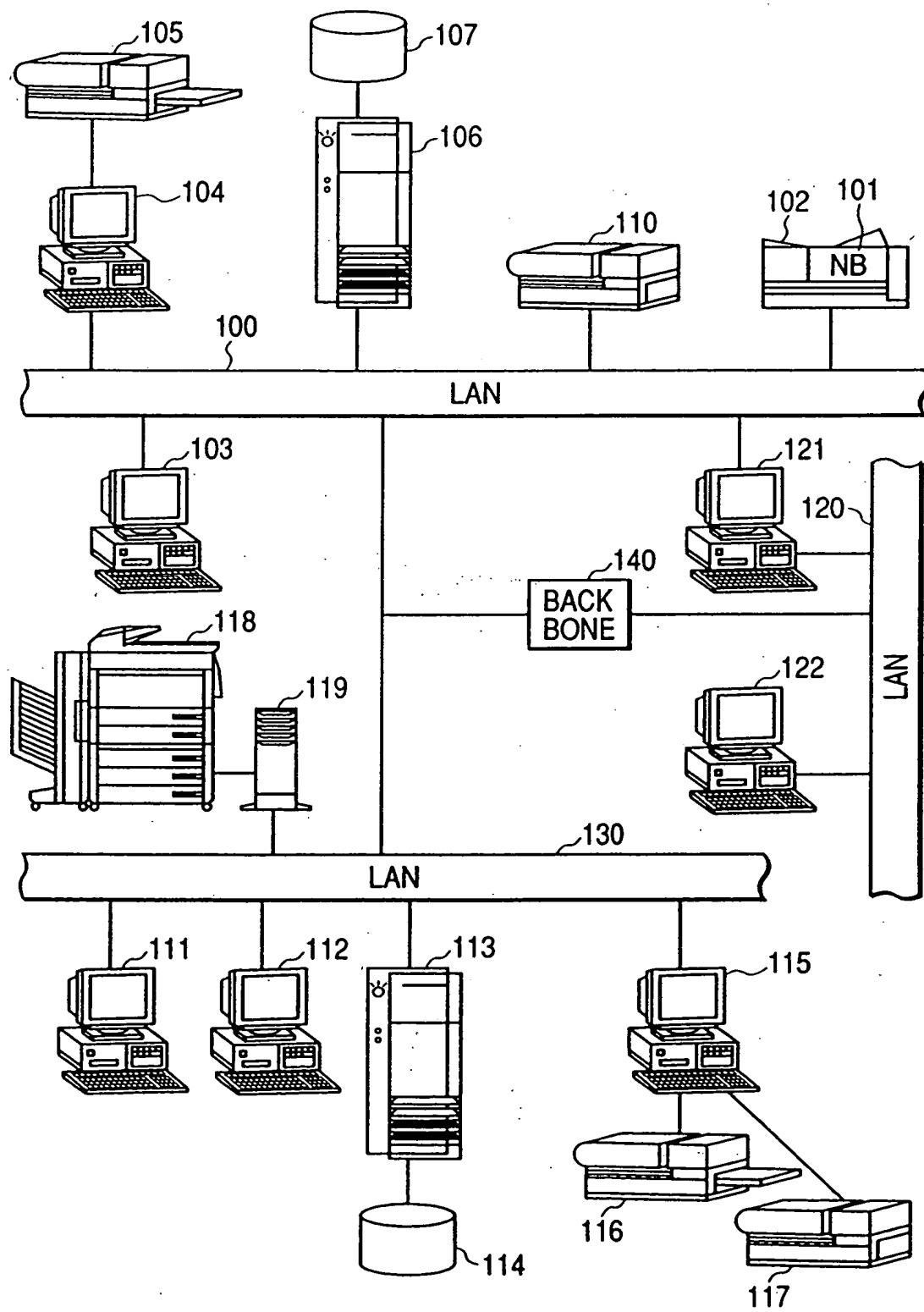


FIG. 2

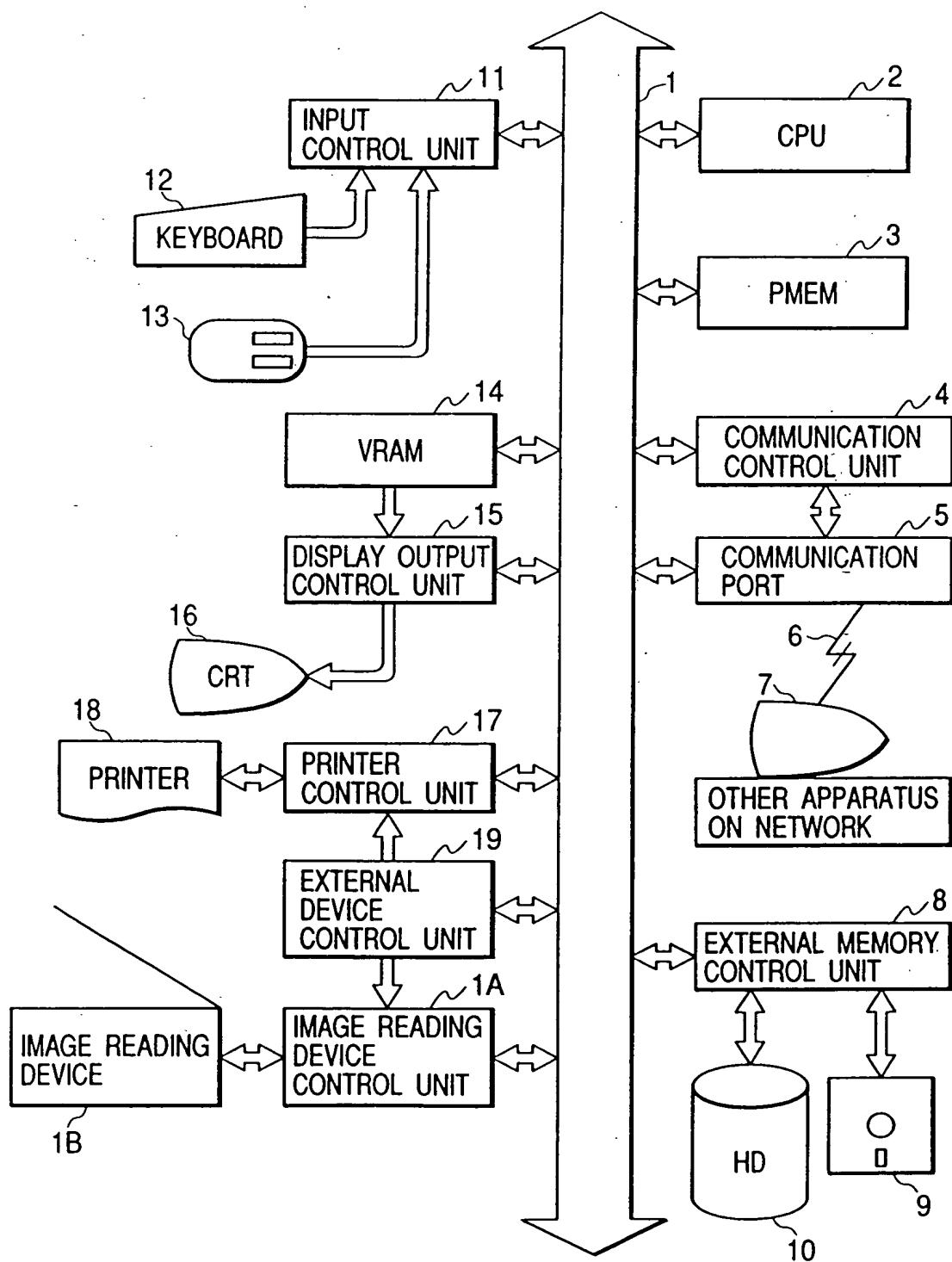


FIG. 3

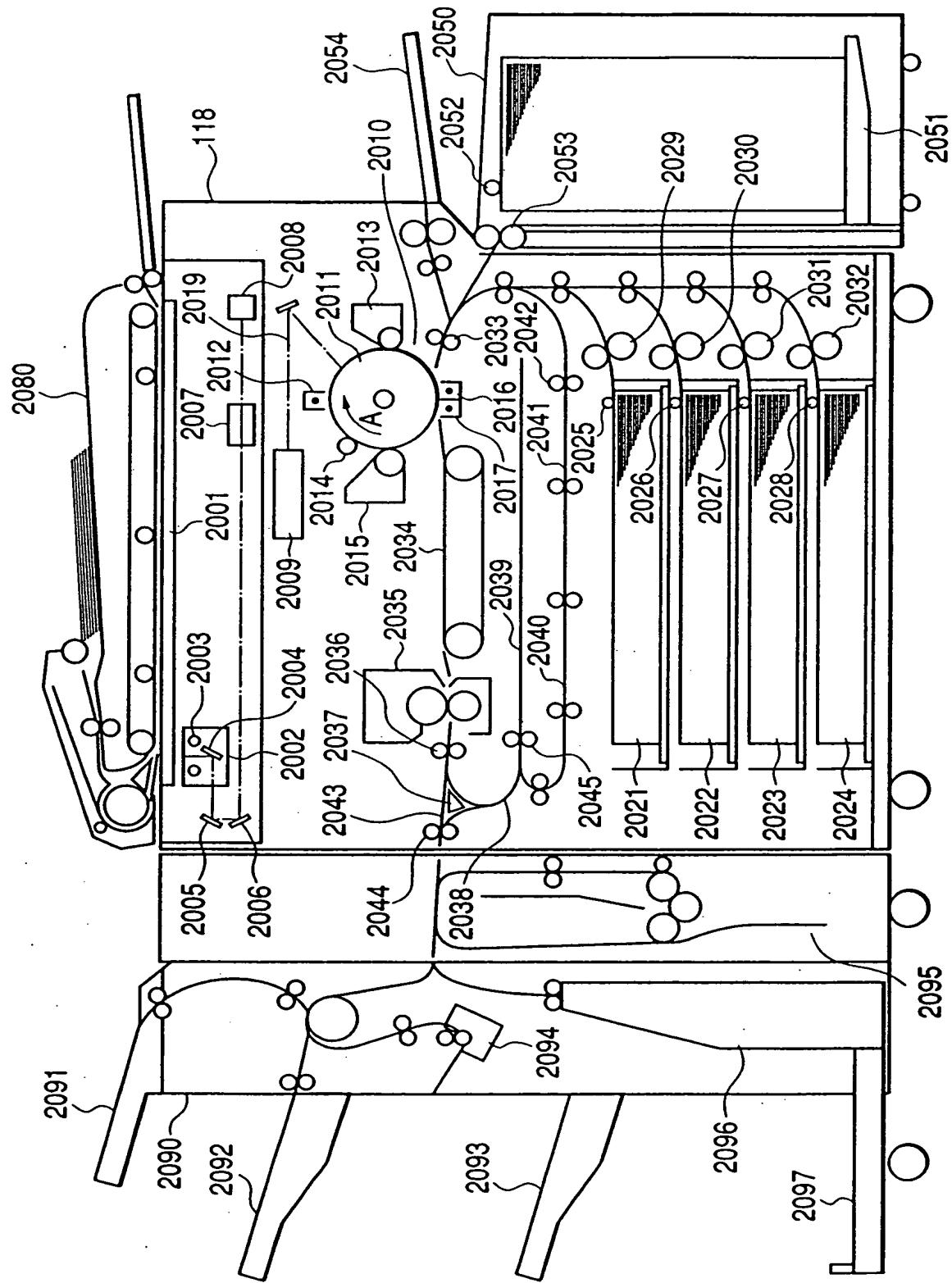


FIG. 4

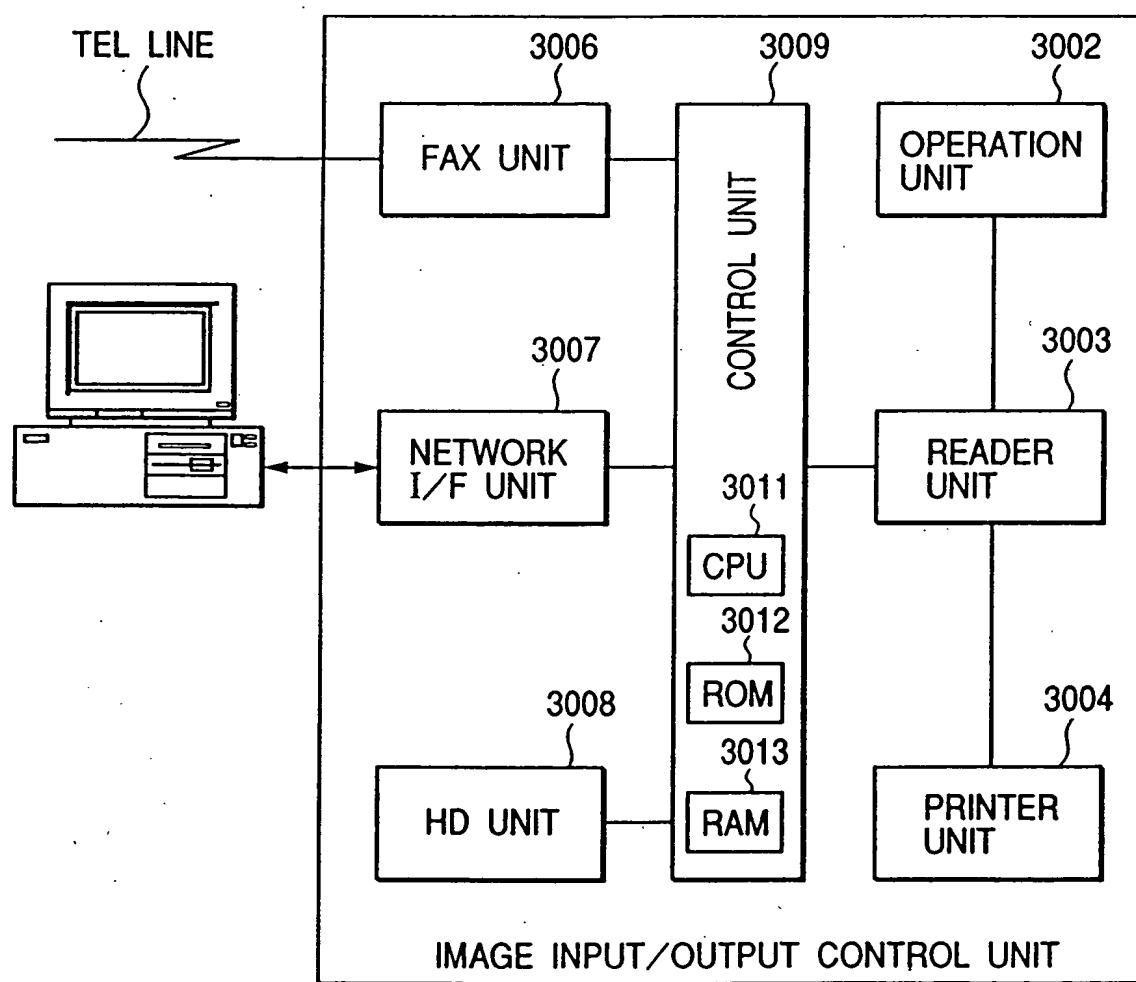
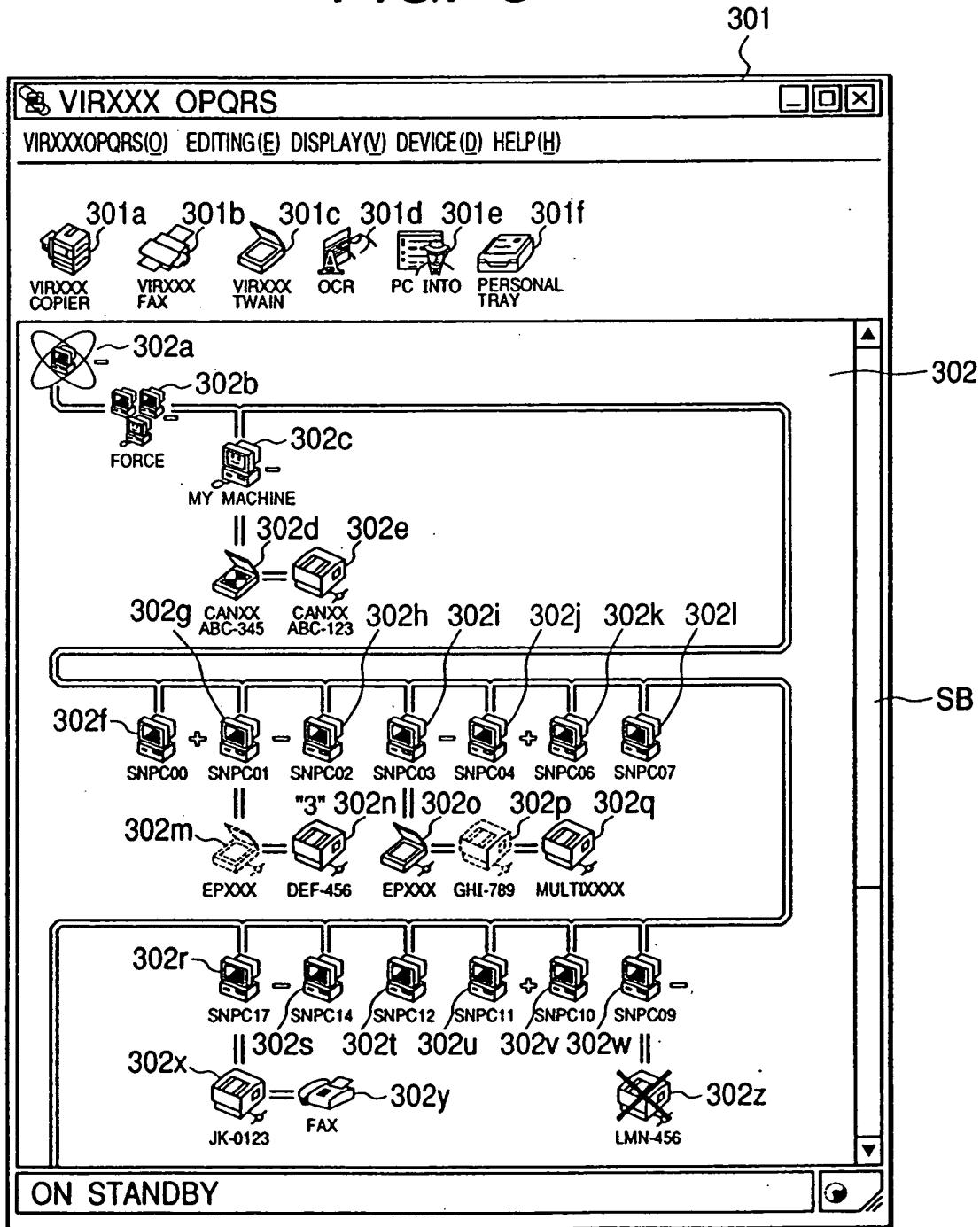


FIG. 5



**FIG. 6**

THE NUMBER OF REGISTERED FUNCTIONS		601
COMMENT		602
1	SCANNER	603a
	PRINTER	603b
	COPYING MACHINE	603c
	COMMENT	603d
	⋮	
N	SCANNER	604a
	FAX MODEM	604b
	FAX	604c
	COMMENT	604d

**FIG. 8**

501

VIRXXX OPQRS
INDICATED COMBINATION IS NOT EFFECTIVE
OK

FIG. 7

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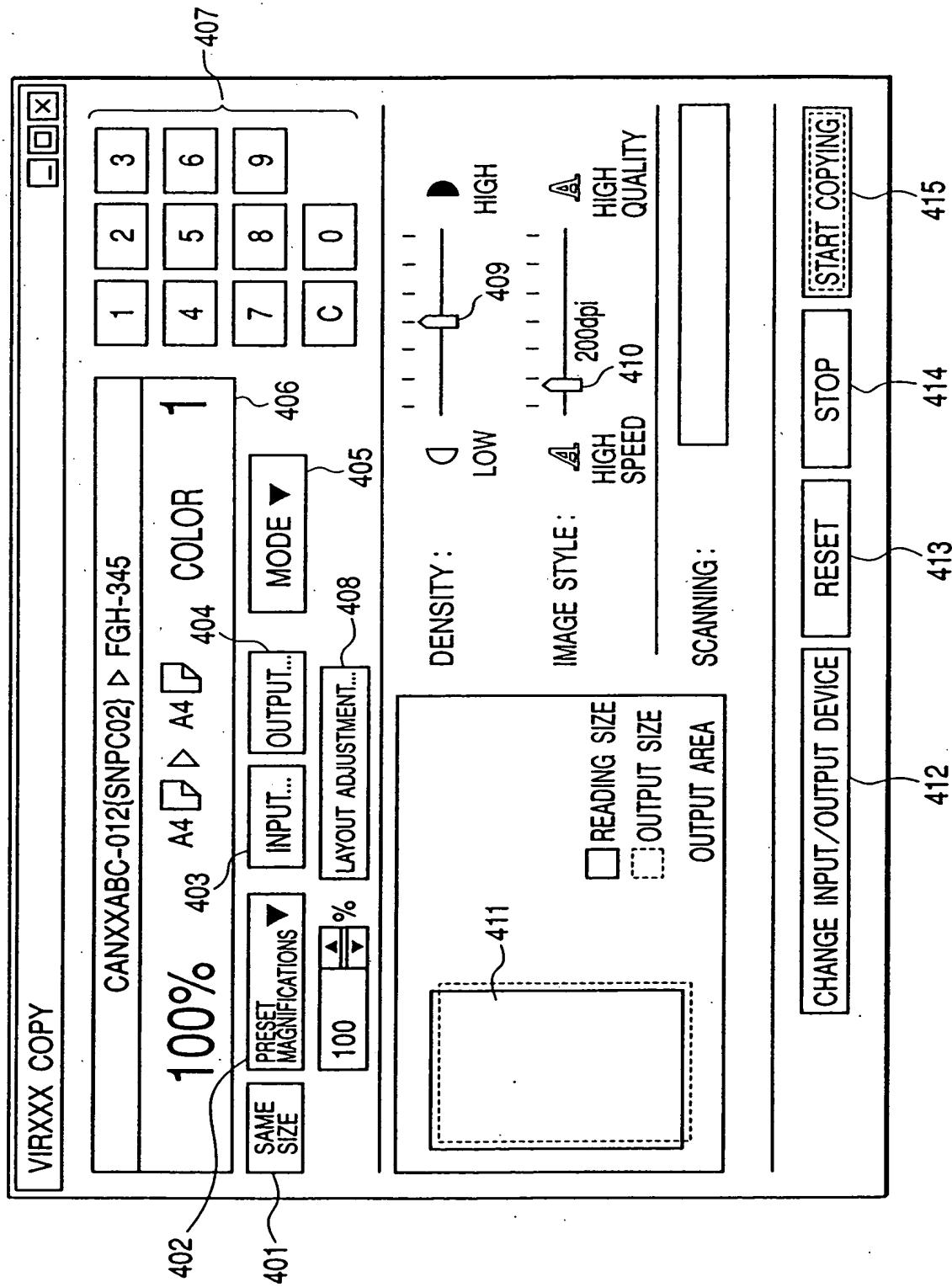
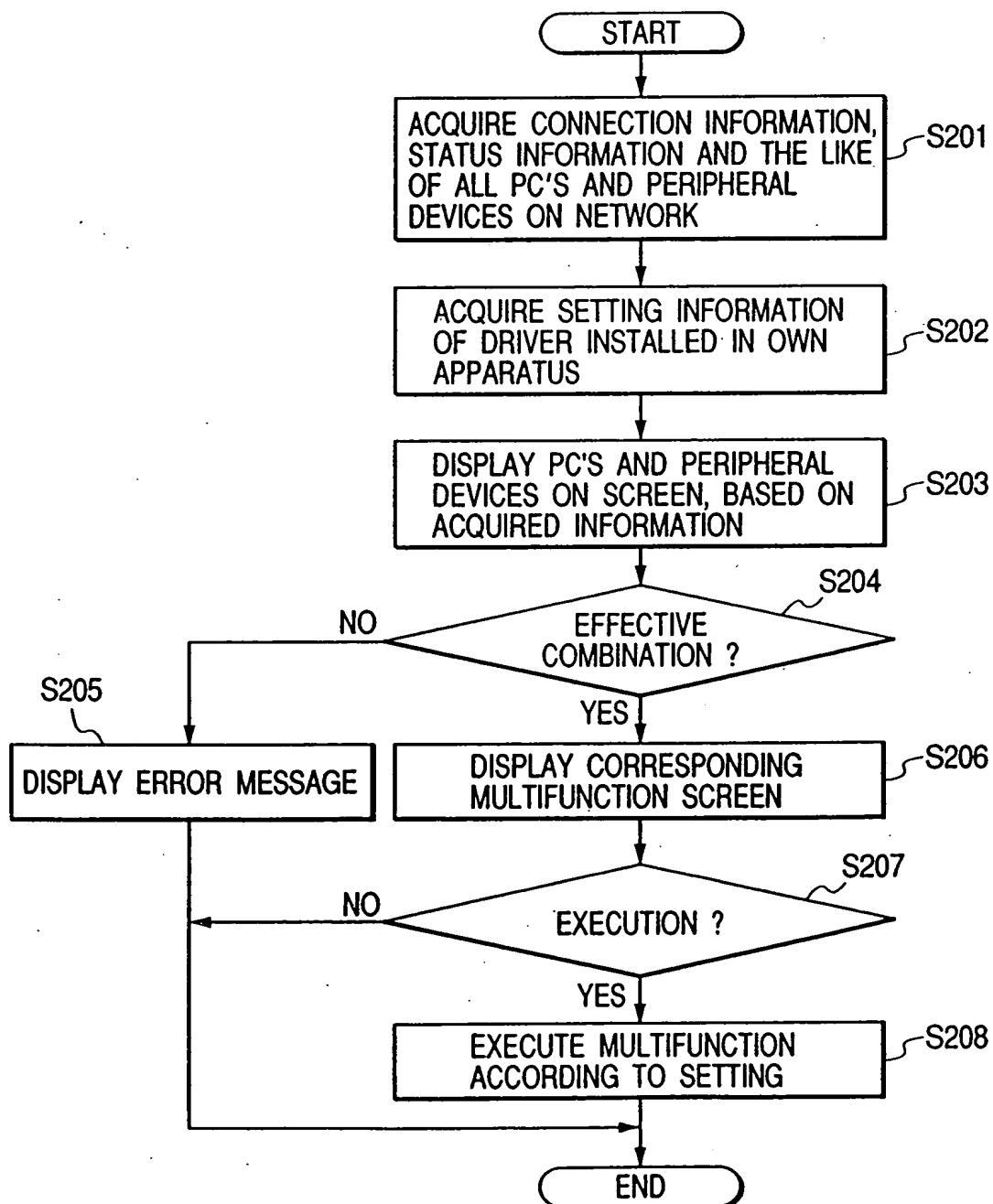


FIG. 9



*FIG. 10*800

	PRINTER DRIVER NAME	801
	VERSION INFORMATION	
	COMMENT	
PAGE SETTING	ORIGINAL SIZE	802
	OUTPUT SHEET SIZE	
	PRINTING DIRECTION	
	PAGE LAYOUT	
	MAGNIFICATION	
	STAMP	
FINISH	PRINTING METHOD	803
	BINDING DIRECTION	
	SHEET DISCHARGE METHOD	
SHEET FEED	SHEET FEED METHOD	804
	OHP PRINTING DETAIL SETTING	
DEVICE SETTING	SHEET FEED OPTION	805
	SHEET DISCHARGE OPTION	

FIG. 11

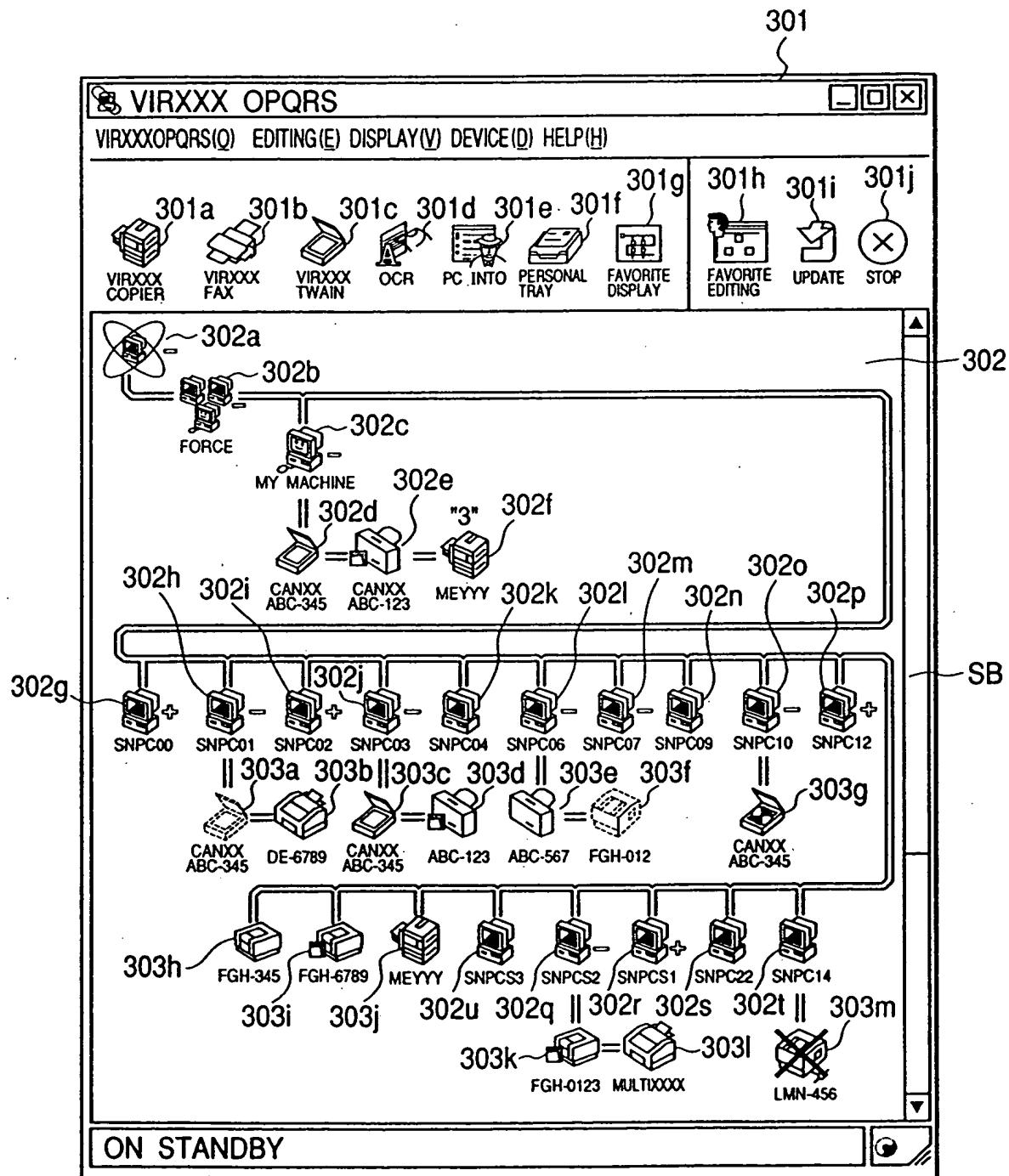


FIG. 12

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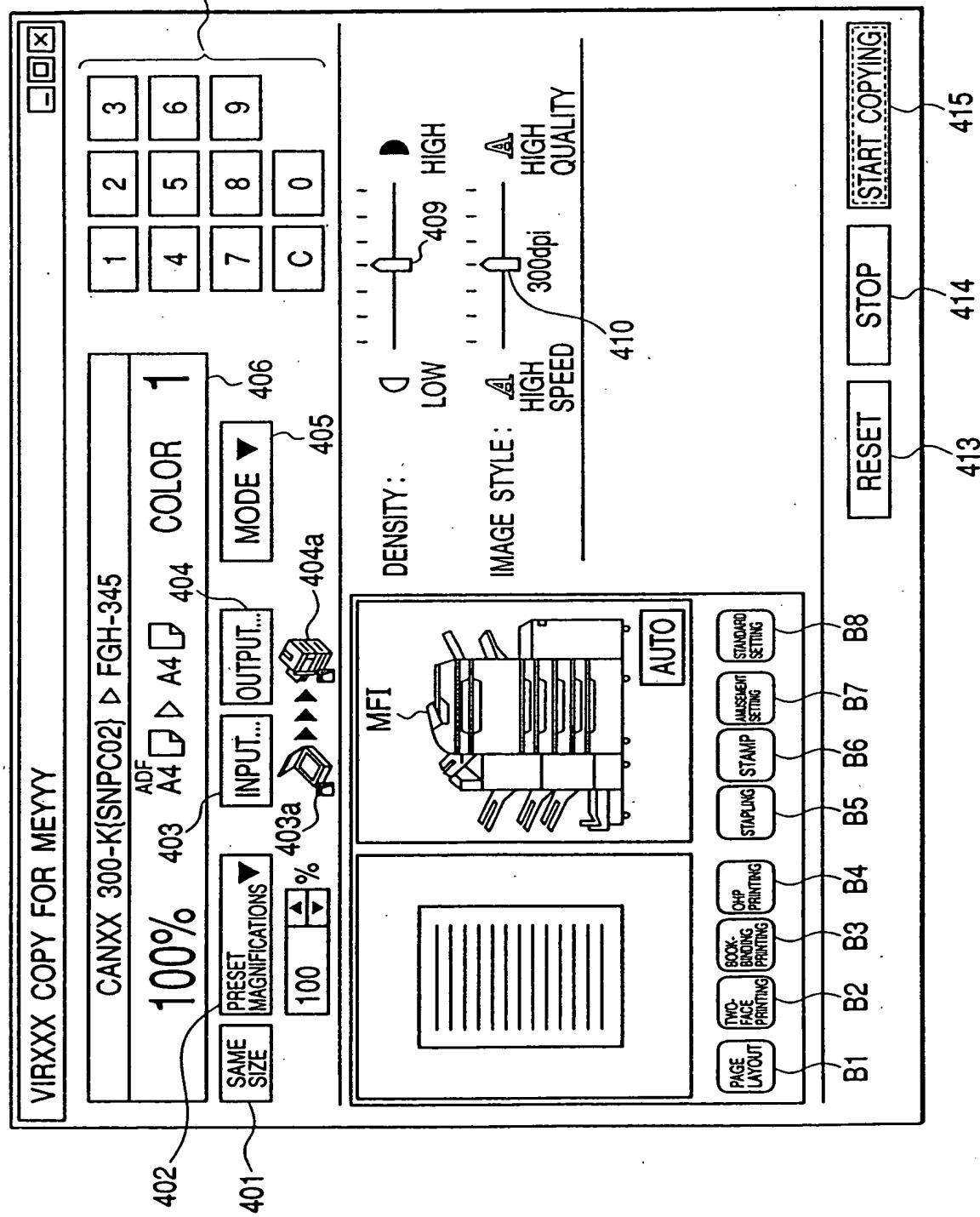


FIG. 13

12 / 42

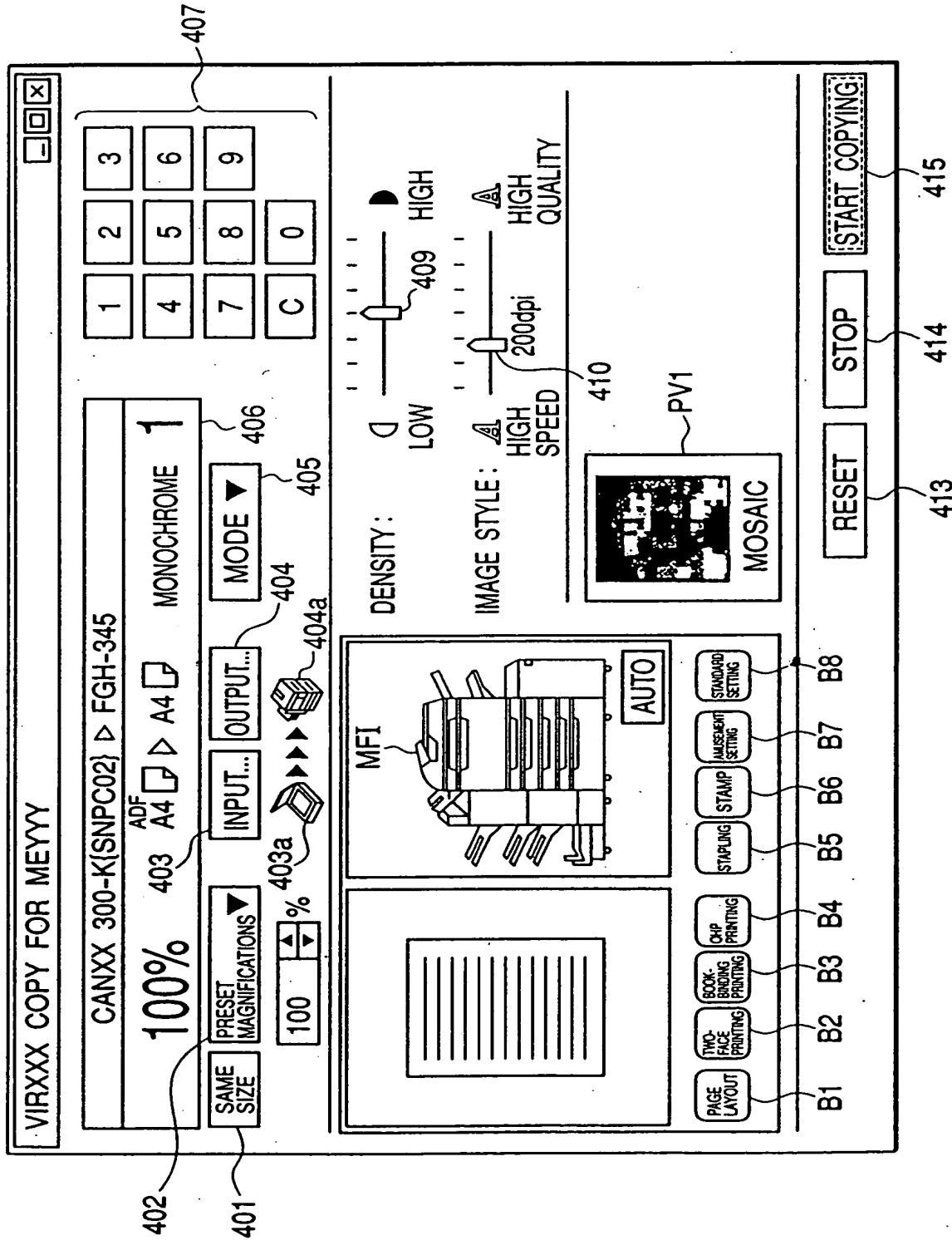


FIG. 14

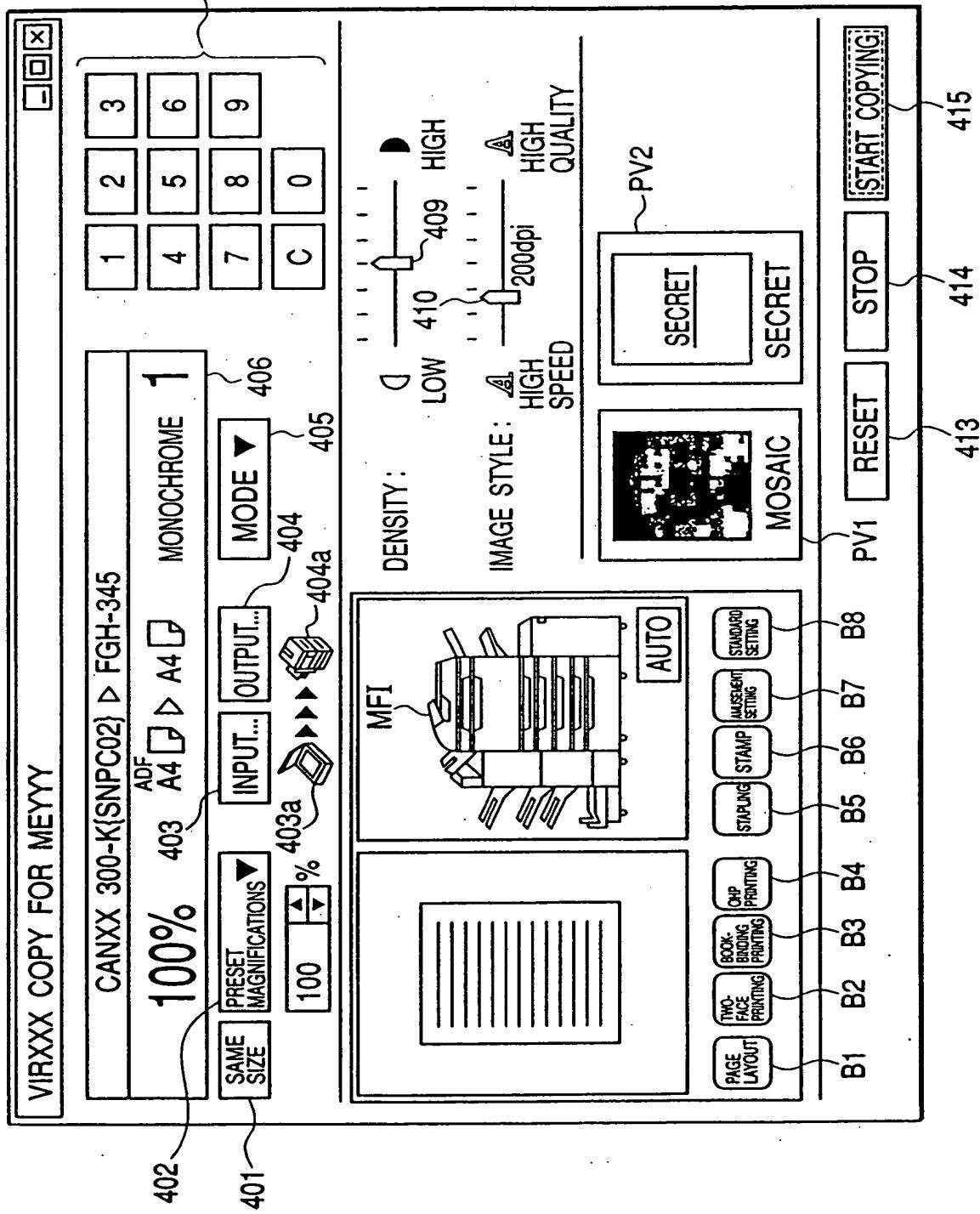


FIG. 15

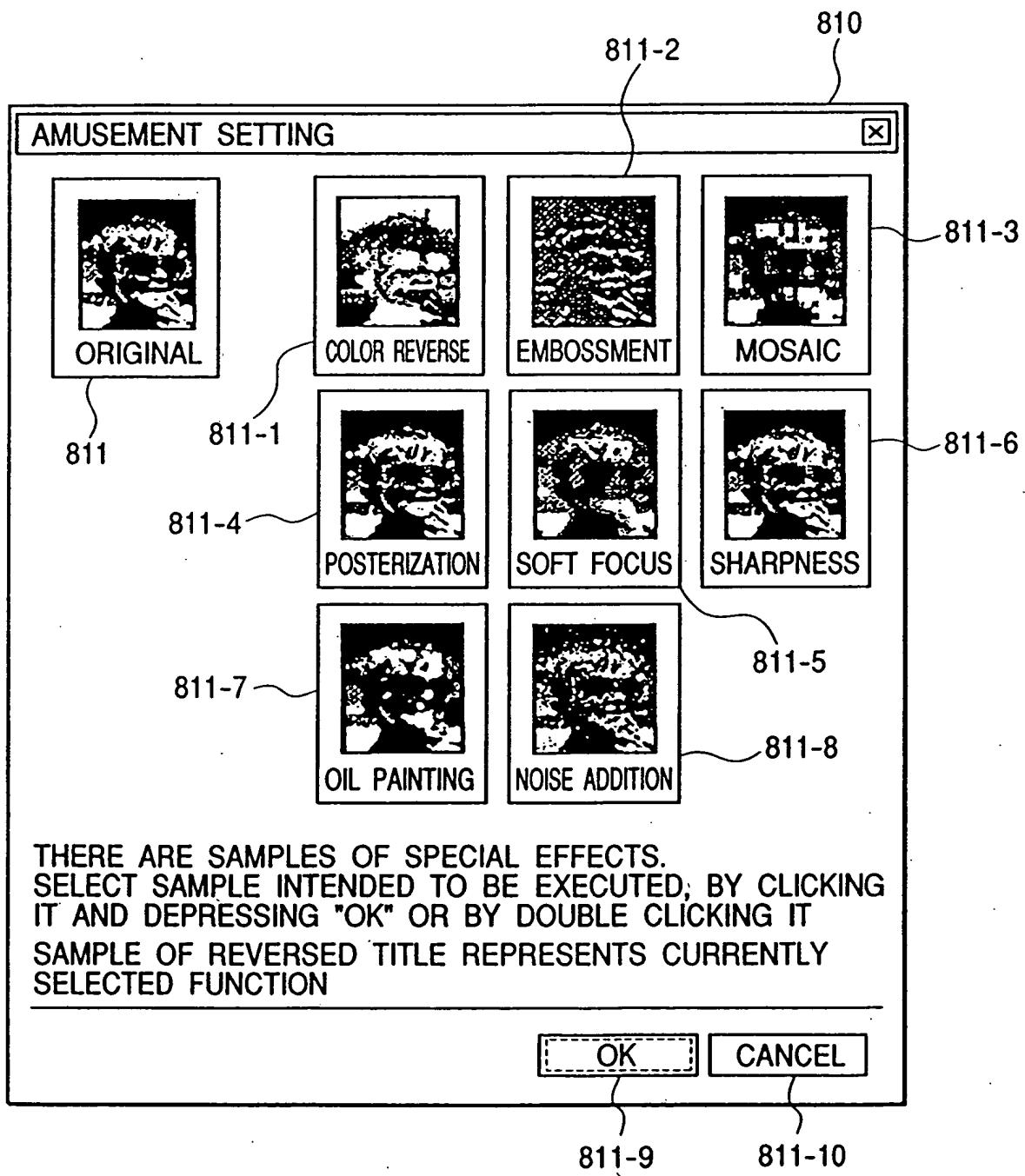


FIG. 16

820

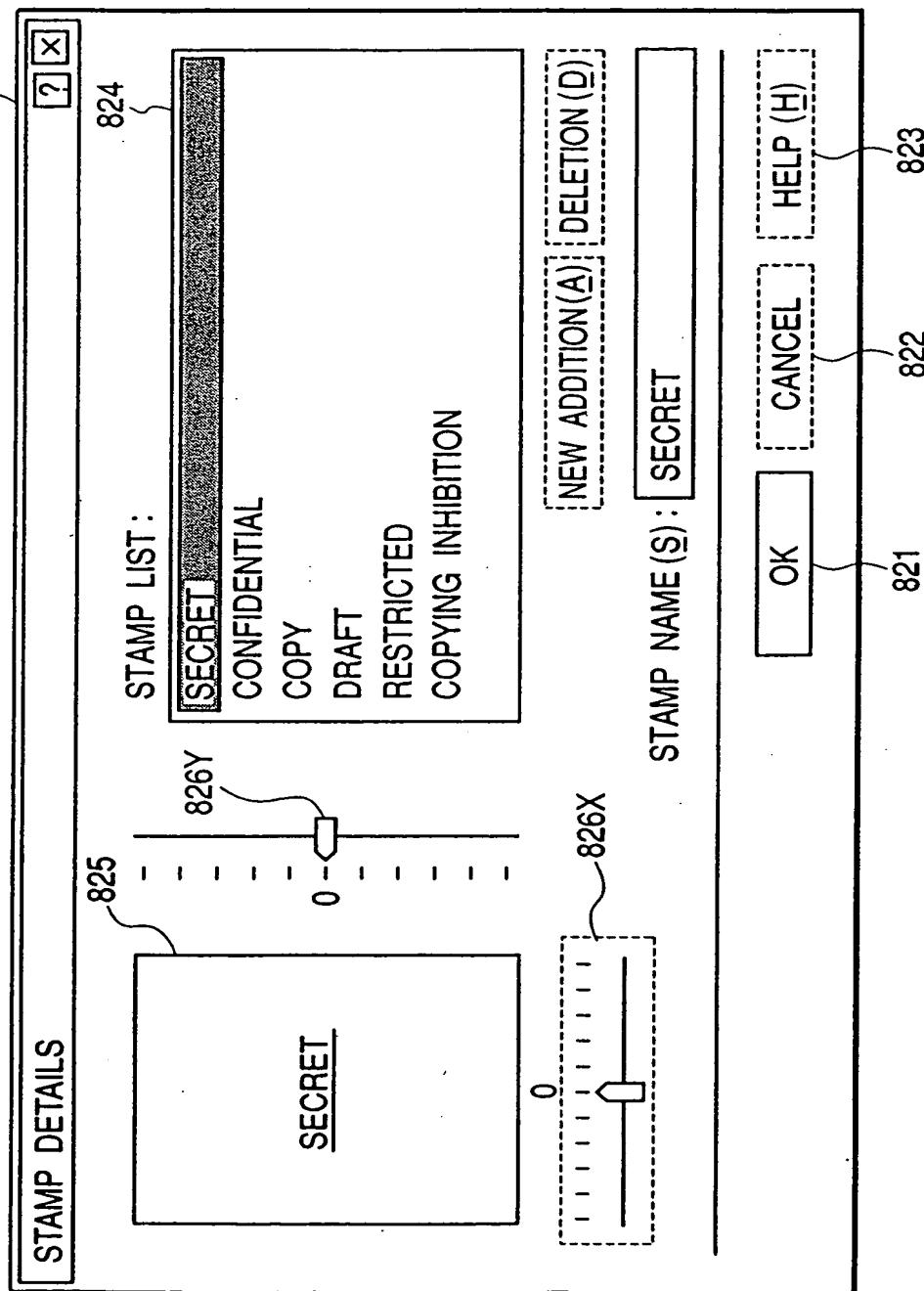


FIG. 17

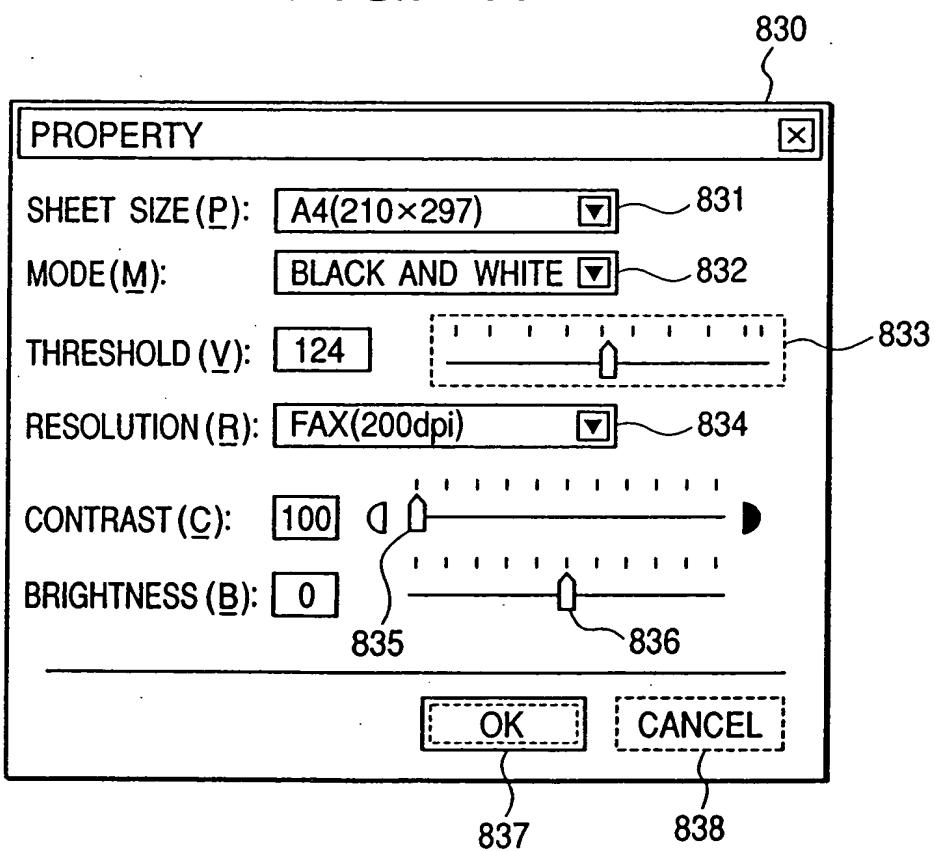
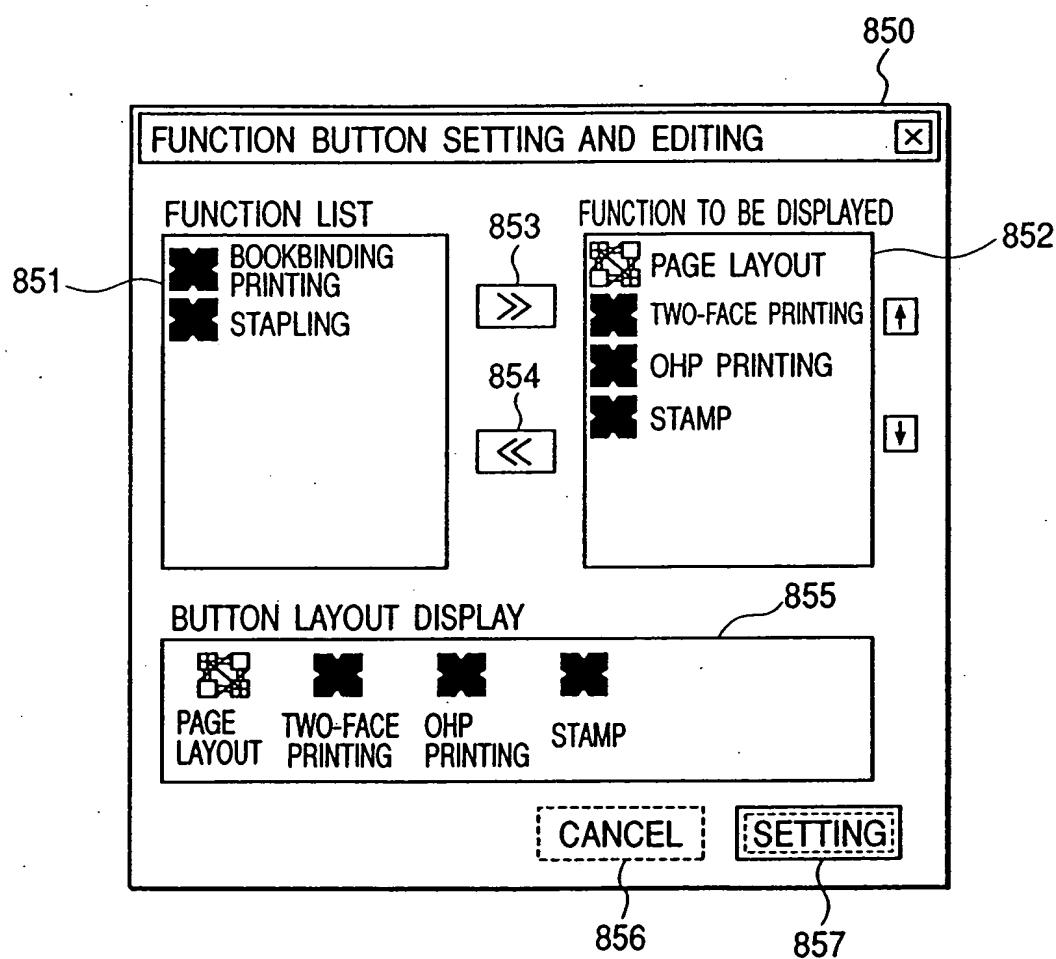


FIG. 18

800

PRINTER DRIVER NAME		801
VERSION INFORMATION		
COMMENT		
PAGE SETTING	RESOURCE OFFSET	802
	ORIGINAL SIZE	
	RESOURCE OFFSET	
	OUTPUT SHEET SIZE	
	RESOURCE OFFSET	
	PRINTING DIRECTION	
	RESOURCE OFFSET	
	PAGE LAYOUT	
	RESOURCE OFFSET	
	MAGNIFICATION	
	RESOURCE OFFSET	
	STAMP	
FINISH	RESOURCE OFFSET	803
	PRINTING METHOD	
	RESOURCE OFFSET	
	BINDING DIRECTION	
	RESOURCE OFFSET	
	SHEET DISCHARGE METHOD	
	RESOURCE OFFSET	
SHEET FEED	RESOURCE OFFSET	804
	SHEET FEED METHOD	
	RESOURCE OFFSET	
	OHP PRINTING DETAIL SETTING	
	RESOURCE OFFSET	
DEVICE SETTING	RESOURCE OFFSET	805
	SHEET FEED OPTION	
	RESOURCE OFFSET	
	SHEET DISCHARGE OPTION	
	RESOURCE OFFSET	
RESOURCE DATA SEGMENT		806

FIG. 19



## FIG. 20

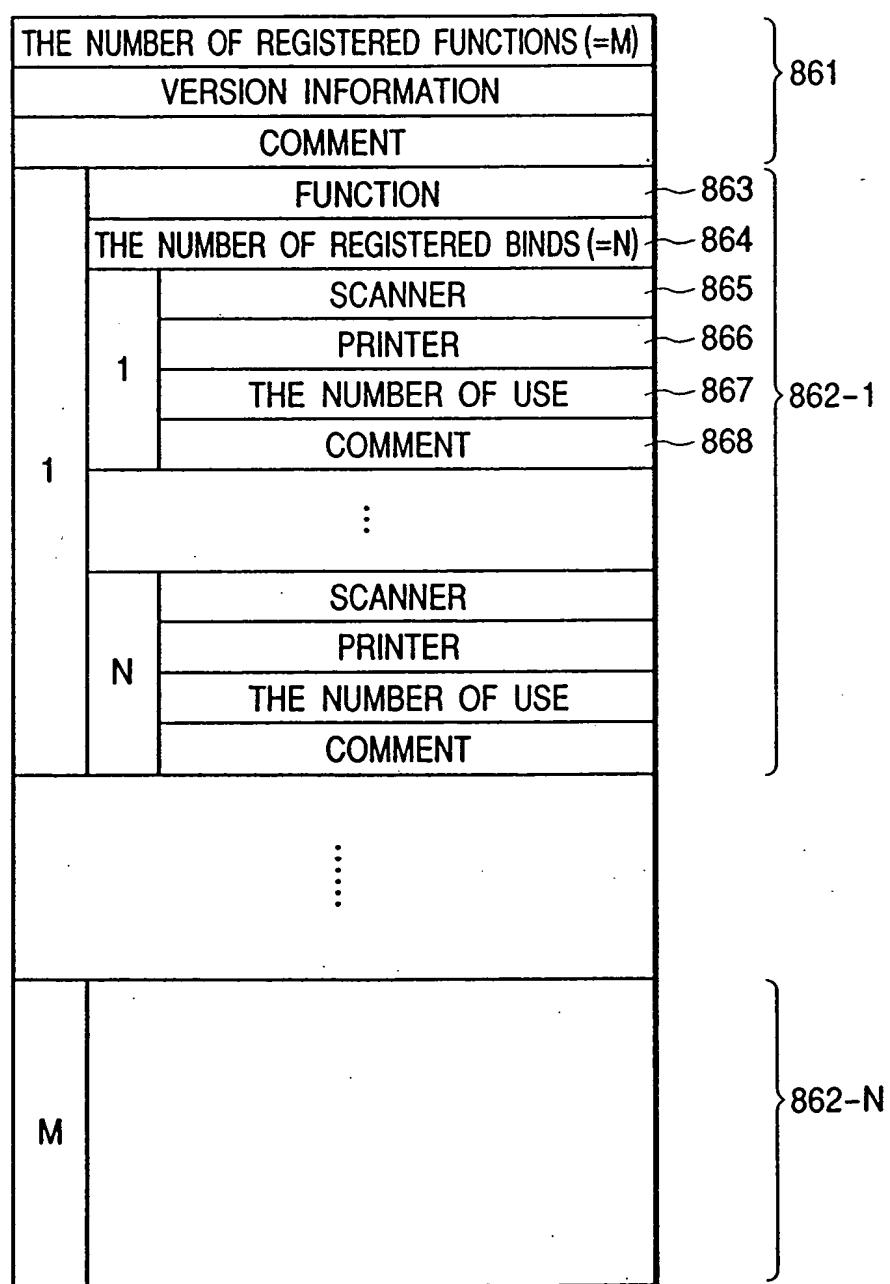
860

FIG. 21

870

MANAGEMENT DOMAIN NAME		871	
THE NUMBER OF MANAGEMENT PRINTERS (=M)			
COMMENT			
873	PRINTER NAME		
874	THE NUMBER OF LOGS (=N1)	872-1	
875	COMMENT		
876-1	1	1	
	INPUT INFORMATION		
	APPLICATION NAME OR SCANNER ATTRIBUTE INFORMATION		
	THE NUMBER OF TOTAL PRINTING PAGES		
	SHEET SIZE		
	SHEET LONGITUDE		
	SHEET LATITUDE		
	COLOR OR BLACK/WHITE		
	ONE FACE/TWO FACES		
	TONER USE QUANTITY (Y, M, C,K)		
	⋮		
876-N	N1		
	⋮		
PRINTER NAME		872-M	
THE NUMBER OF LOGS (=N2)			
COMMENT			
M	1	1	
	INPUT INFORMATION		
	APPLICATION NAME OR SCANNER ATTRIBUTE INFORMATION		
	THE NUMBER OF TOTAL PRINTING PAGES		
	SHEET SIZE		
	SHEET LONGITUDE		
	SHEET LATITUDE		
	COLOR OR BLACK/WHITE		
	ONE FACE/TWO FACES		
	TONER USE QUANTITY (Y, M, C,K)		
	⋮		
	N2		
	⋮		

## FIG. 22

ITEM	CONTENTS	DATA RECORDING FORMAT
SENDER	FAX SENDER	ONLY WHEN FAX DATA CONTAINS VALID INFORMATION OF SENDER
FAX NUMBER	SENDER FAX NUMBER	ONLY WHEN FAX DATA CONTAINS VALID FAX NUMBER DATA IN CSI BLOCK
DATE	FAX RECEPTION DATE	THE FORMAT IS "YY/MM/DD HH:MM" ("HH" IS 24-HOUR FORMAT)
RECEPTION RESULT	FAX RECEPTION RESULT STATUS	NORMAL END → RECEPTION SUCCESS RECEPTION FAILURE
RECEPTION TIME	TIME TO COST RECEIVING FAX	THE FORMAT IS "HH:MM:SS". IN CASE OF LESS THAN 1 HOUR, THE FORMAT IS "MM:SS"
RECEPTION PAGE	TOTAL FAX RECEPTION PAGES	
ERROR INFORMATION	RECEIVE ERROR INF.	
RESOLUTION	RECEPTION FAX RESOLUTION	100, 200dpi
COMPRESSION SYSTEM	RECEPTION FAX COMPRESSION SYSTEM	MH, MR, MMR

FIG. 23

ITEM	CONTENTS	DATA RECORDING FORMAT
RECEIVER	FAX RECEIVER	RECEIVER'S NAME THAT IS INDICATED IN FAX SENDING DIALOG
FAX NUMBER	RECEIVER FAX NUMBER	
DATE	FAX TRANSMISSION DATE	THE FORMAT IS "YY/MM/DD HH:MM" ("HH" IS 24-HOUR FORMAT)
TRANSMISSION RESULT	FAX TRANSMISSION RESULT	NORMAL END → TRANSMISSION SUCCESS TRANSMISSION FAILURE PARTIALLY FAILED (SOME SENDING FAILED IN CASE OF MULTIPLE RECEIVERS)
TRANSMISSION TIME	TIME TO COST TRANSMITTING FAX	FORMAT IS "HH:MM:SS". IF LESS THAN 1 HOUR, FORMAT IS "MM:SS"
THE NUMBER OF TRIALS	THE NUMBER OF TRANSMISSION TRIALS	
DOCUMENT NAME	DOCUMENT NAME THAT IS SENT	• IN VFAX PRINTER THE NAME OF PRINTED DOCUMENT • IN CASE OF VOC'S FUNCTION, (SCAN IMAGE AND SEND FAX) THIS NAME IS "PCNAME-YYMMDDHHMM. TIX"
THE NUMBER OF RECEIVERS		
TRANSMISSION PAGE	THE NUMBER OF TRANSMISSION FAX PAGES	(TRANSMISSION PAGE)/(TOTAL PAGE) EX.: TOTAL PAGE : 100PAGES TRANSMISSION PAGE : 25PAGES DISPLAY → 25/100
ERROR INFORMATION	TRANSMISSION ERROR INFORMATION OF THE JOB	ERROR INFORMATION LIKE "RECEIVER FAX IS BUSY"
BELONGING OF RECEIVER	BELONGING OF FAX RECEIVER	DESTINATION COMPANY NAME + BELONGING POST
COMMENT	COVER PAGE COMMENT	
RESOLUTION	TRANSMISSION FAX RESOLUTION	100, 200dpi
COMPRESSION SYSTEM	TRANSMISSION FAX COMPRESSION SYSTEM	MH, MR, MMR
RECEPTION TIME (FOR SERVER)	THE TIME FAX DATA IS RECEIVED TO SERVER'S WAITING TRAY	YY/MM/DD HH:MM
SENDER	USER NAME WHO SENDS THIS FAX	
SENDER'S PC	DATA SENDER'S PC NAME	

## FIG. 24

ITEM	CONTENTS
USER NAME	NAME OF USER WHO PERFORMS SCAN (USER NAME IS JUDGED BY USING INFORMATION IN HTTP HEADER)
SCAN START TIME	TWAIN SESSION START TIME (SNT BEGIN SESSION CALL TIME)
SCAN END TIME	TWAIN SESSION END TIME (SNT END SESSION CALL TIME)
THE NUMBER OF TOTAL SCAN PAGES	THE TOTAL NUMBER OF PAGES OF SCAN DOCUMENT (MAX 10 DIGITS)
MACHINE NAME	NAME OF MACHINE WHICH PERFORMS SCAN (MAX 15 DIGITS)
TWAIN DRIVER NAME	NAME OF TWAIN DRIVER WHICH IS USED FOR SCAN (MAX 32 DIGITS)
SHEET SIZE	
SHEET LONGITUDE	SHEET HEIGHT REPRESENTED BY UNIT OF 1/10mm (MAX 4 DIGITS)
SHEET LATITUDE	SHEET WIDTH REPRESENTED BY UNIT OF 1/10mm (MAX 4 DIGITS)
COLOR OR BLACK/ WHITE	1: MONOCHROME 2: COLOR

**FIG. 25**

ITEM	CONTENTS
USER NAME	NAME OF USER WHO PERFORMS PRINTING
PRINTING START TIME	PRINTING JOB START TIME
PRINTING END TIME	PRINTING JOB END TIME
THE NUMBER OF TOTAL PRINTING PAGES	THE TOTAL NUMBER OF PAGES OF PRINTING DOCUMENT (MAX 10 DIGITS)
MACHINE NAME	NAME OF MACHINE TO WHICH PRINTING IS INSTRUCTED (MAX 15 DIGITS)
PRINTER DRIVER NAME	NAME OF PRINTER DRIVER WHICH IS USED FOR PRINTING (MAX 32 DIGITS)
APPLICATION NAME	NAME OF APPLICATION WHICH PERFORMS PRINTING ATTRIBUTE INFORMATION OF SCANNER MACHINE NAME, RESOLUTION, COLOR/MONOCHROME IN CASE OF SCANNER
THE NUMBER OF DESIGNATED PRINTS	THE NUMBER OF PRINTS DESIGNATED IN PRINTING (MAX 6 DIGITS)
SHEET SIZE	
SHEET LONGITUDE	SHEET HEIGHT REPRESENTED BY UNIT OF 1/10mm (MAX 4 DIGITS)
SHEET LATITUDE	SHEET WIDTH REPRESENTED BY UNIT OF 1/10mm (MAX 4 DIGITS)
COLOR OR BLACK/WHITE	1 : MONOCHROME 2 : COLOR
ONE FACE/TWO FACES	1 : ONE FACE 2 : TWO FACES
TONER USE QUANTITY (Y, M, C, K)	TONER USE QUANTITY

FIG. 26

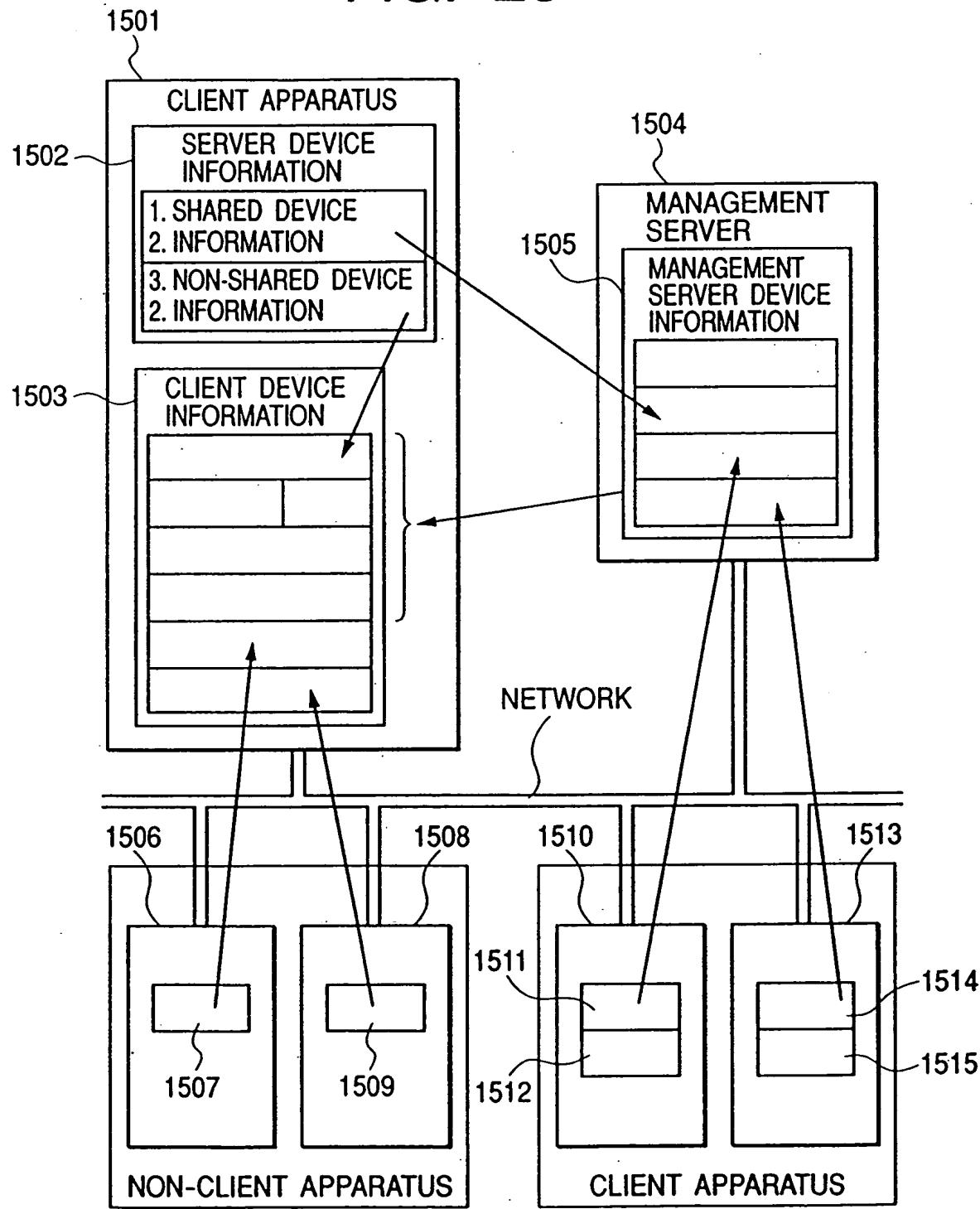


FIG. 27

1505

1601	HEADER INFORMATION	VERSION
		INDEX TABLE NUMBER → N
		INDEX TABLE OFFSET
1602	INDEX TABLE	ELEMENT [0]
		DATA OFFSET
		DATA SIZE
1603-1	PC INFORMATION	FLAG
		⋮
		ELEMENT [N-1]
1603-1	PC INFORMATION	DATA OFFSET
		DATA SIZE
		FLAG
1604	PC INFORMATION	PC NAME
		LOGON USER
		LICENSE INFORMATION
1605	CLIENT PC DEVICE INFORMATION DATA [0]	OS INFORMATION
		PRINTER INFORMATION NUMBER → N0
		SCANNER INFORMATION NUMBER → N1
1605	CLIENT PC DEVICE INFORMATION DATA [0]	FAX BOARD INFORMATION NUMBER → N2
		PRINTER INFORMATION [0]
		⋮
1606	CLIENT PC DEVICE INFORMATION DATA [0]	PRINTER INFORMATION [N0-1]
		SCANNER INFORMATION [0]
		⋮
1607	CLIENT PC DEVICE INFORMATION DATA [0]	SCANNER INFORMATION [N1-1]
		FAX BOARD INFORMATION [0]
		⋮
1603-N	CLIENT PC DEVICE INFORMATION DATA [N-1]	FAX BOARD INFORMATION [N2-1]
		⋮
		PC INFORMATION
1603-N	CLIENT PC DEVICE INFORMATION DATA [N-1]	PRINTER INFORMATION
		SCANNER INFORMATION
		FAX BOARD INFORMATION

## FIG. 28A

1604

INFORMATION	CONTENTS
PC NAME	PC'S NET BIOS NAME
LOGON USER	PC'S LOGON USER
LICENSE INFORMATION	LICENSE NUMBER
OS INFORMATION	95/98 OR NT
NUMBER OF PRINTER INFORMATION	
NUMBER OF SCANNER INFORMATION	
NUMBER OF FAX BOARD INFORMATION	

## FIG. 28B

1605

INFORMATION	CONTENTS	ACQUIREMENT METHOD
PRINTER NAME	(C) PRINTER NAME	PPRINTERNAME IN PRINTER_INFO_2
DRIVER NAME	(C) DRIVER NAME	PDRIVERNAME IN PRINTER_INFO_2
SHARED NAME	(C) SHARED NAME IN THE NETWORK	PSHARENAME IN PRINTER_INFO_2
PORT NAME	(C) PRINTER PORT INFORMATION	PPORTNAME IN PRINTER_INFO_2
SHARED INFORMATION	(C) THE INFORMATION TO SHARE AS NETWORK PRINTER	PATTRIBUTENAME IN PRINTER_INFO_2
SERVER NAME	(C) SERVER PC OF SHARED PRINTER	PSERVERNAME IN PRINTER_INFO_2
COLOR INFORMATION	(A)	DMCOLOR OF PDEVMODE IN PRINTER_INFO_2

(C) → CONNECTION INFORMATION, (A) → DEVICE ATTRIBUTE INFORMATION

FIG. 29A

1606

INFORMATION	CONTENTS	ACQUIREMENT METHOD
TWAIN SOURCE NAME	(C) TWAIN SOURCE NAME	OBTAINED BY TWAIN MANAGER TW_IDENTITY. PRODUCTNAME
SHARED NAME	(C) SHARED NAME IN THE NETWORK	UNDER VOS MANAGEMENT
SHARED INFORMATION	(C) SHARED INFORMATION LIKE PASSWORD IS SET OR NOT	UNDER VOS MANAGEMENT
MANUFACTURER NAME	(A) TWAIN MANUFACTURER NAME	STUB'S SNTGETSCANNER ATTRIBUTE () CAN GET THIS INFORMATION
ADF INFORMATION	(A) ADF CONNECTION INFORMATION	STUB'S SNTGETSCANNER ATTRIBUTE () CAN GET THIS INFORMATION
COLOR INFORMATION	(A) TWAIN DEVICE'S COLOR INFORMATION	STUB'S SNTGETSCANNER ATTRIBUTE () CAN GET THIS INFORMATION
UI INFORMATION	(A) SILENT UI OR NOT	STUB'S SNTGETSCANNER ATTRIBUTE () CAN GET THIS INFORMATION
THE FOLLOWING INFORMATION DOES NOT BE NEEDED FOR THE PURPOSE OF SHOWING THE SCANNER ICON. BUT VTD MUST CHECK THE TWAIN DRIVER VERSION WHEN IT IS CONNECTED TO REMOTE SCANNER, BECAUSE VTD SAVES THE INFORMATION OF CAPABILITIES AND MUST JUDGE IF THIS INFORMATION IS RIGHT OR NOT. THEREFORE IT MAY BE GOOD WAY TO SAVE THE FOLLOWING INFORMATION IN THIS SCANNER INFORMATION TABLE. THIS TOPICS IS NECESSARY TO DISCUSS WITH PECAN. IF YOU JUDGE THAT THE FOLLOWING ITEMS ARE NOT NEEDED, PLEASE TELL US		
THE ELSE OF TW_IDENTITY	OTHER TW_IDENTITY INFORMATION (EX : TWAIN PROTOCOL VERSION, TWAIN DRIVER VERSION)	THE ELSE OF TW_IDENTITY INFORMATION (EX: TW_IDENTITY. PROTOCOLMAJOR, TW_IDENTITY. PROTOCOLMINOR, TW_IDENTITY. VERSION. MAJOR NUM, TW_IDENTITY. VERSION. MINOR NUM)

FIG. 29B

1607

INFORMATION	CONTENTS	ACQUIREMENT METHOD
SHARED NAME	(C) SHARED NAME IN THE NETWORK	UNDER VOS MANAGEMENT

FIG. 30

1502 (1511, 1514)

The diagram illustrates the data structure defined in FIG. 30. It is a hierarchical tree with labels 1601, 1602, and 1701 pointing to specific fields in the table.

HEADER INFORMATION		VERSION
		INDEX TABLE NUMBER → 1
		INDEX TABLE OFFSET
1602	INDEX TABLE	DATA OFFSET
		DATA SIZE
		FLAG
1701	PC INFORMATION	PC NAME
		LOGON USER
		LICENSE INFORMATION
		OS INFORMATION
		PRINTER INFORMATION NUMBER → N0
		SCANNER INFORMATION NUMBER → N1
		FAX BOARD INFORMATION NUMBER → N2
		PRINTER INFORMATION [0]
	⋮	
	PRINTER INFORMATION [N0-1]	
SCANNER INFORMATION [0]		
⋮		
SCANNER INFORMATION [N1-1]		
FAX BOARD INFORMATION [0]		
⋮		
FAX BOARD INFORMATION [N2-1]		

LOCAL DEVICE INFORMATION DATA [0]

FIG. 31

1503 (1512, 1515)

Diagram illustrating the structure of FIG. 31, showing the hierarchical organization of data fields:

1601	HEADER INFORMATION	VERSION	
		INDEX TABLE NUMBER → N	
		INDEX TABLE OFFSET	
1602	INDEX TABLE	ELEMENT [0]	DATA OFFSET
		ELEMENT [0]	DATA SIZE
		ELEMENT [0]	FLAG
⋮			
1602	INDEX TABLE	ELEMENT [N-1]	DATA OFFSET
		ELEMENT [N-1]	DATA SIZE
		ELEMENT [N-1]	FLAG
1701	LOCAL DEVICE INFORMATION DATA	PC INFORMATION	
		PRINTER INFORMATION	
		SCANNER INFORMATION	
1603-1	CLIENT PC DEVICE INFORMATION DATA	PC INFORMATION	
		PRINTER INFORMATION	
		SCANNER INFORMATION	
⋮			
1603-N	CLIENT PC DEVICE INFORMATION DATA	PC INFORMATION	
		PRINTER INFORMATION	
		SCANNER INFORMATION	
1507	NON-CLIENT PC DEVICE INFORMATION DATA	PC INFORMATION	
		PRINTER INFORMATION	
		⋮	
1509	NON-CLIENT PC DEVICE INFORMATION DATA	PC INFORMATION	
		PRINTER INFORMATION	

FIG. 32

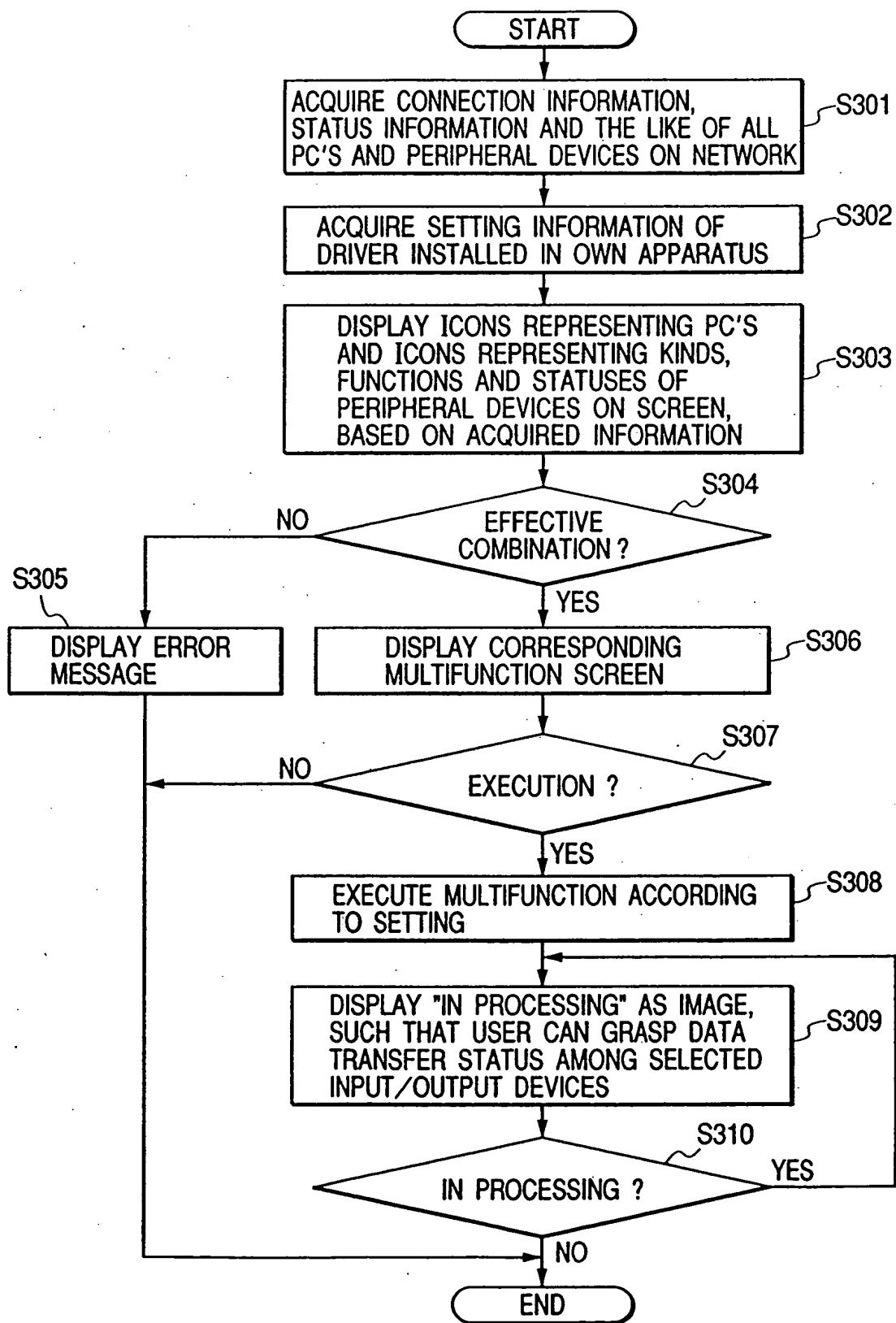


FIG. 33

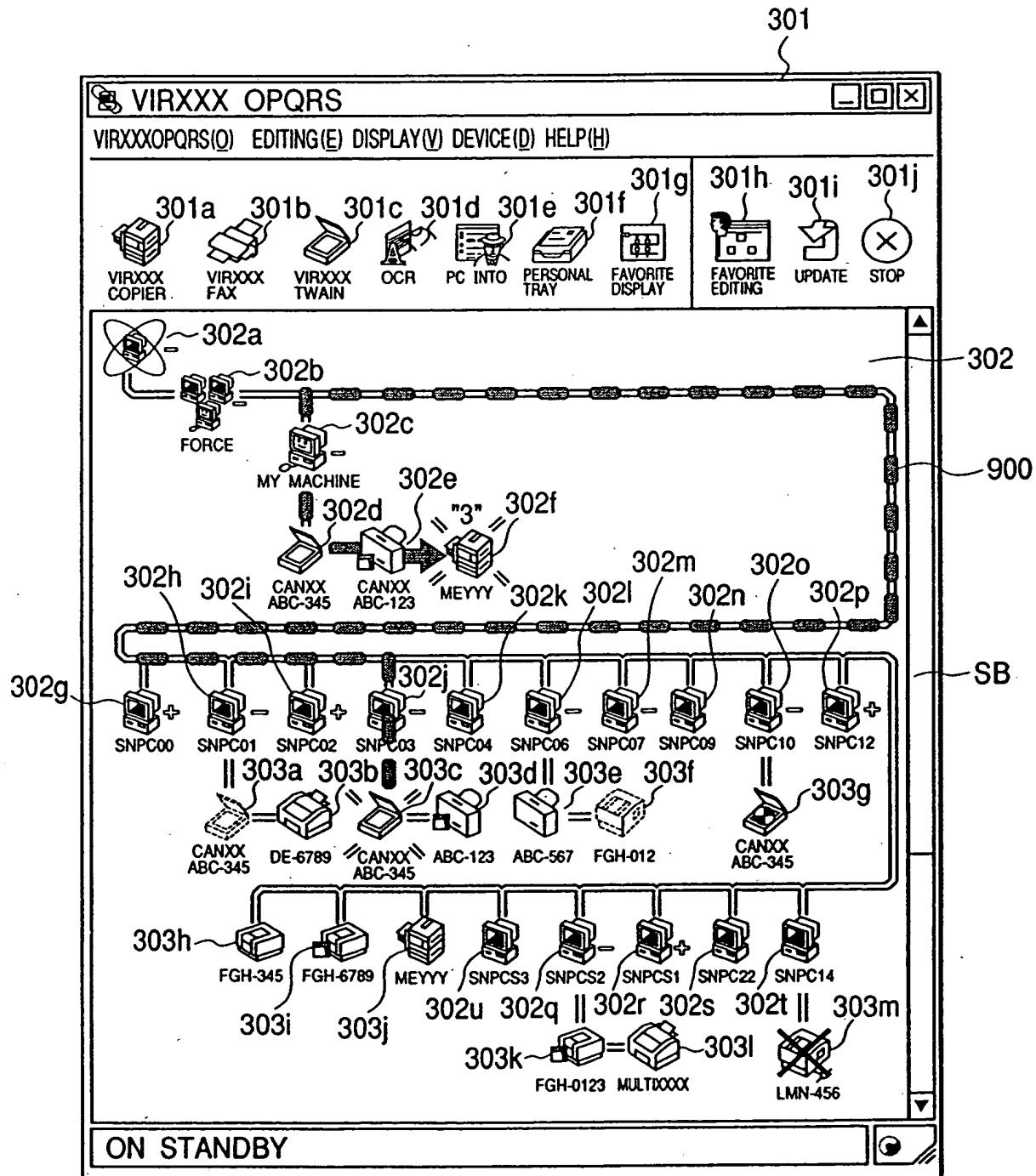


FIG. 34

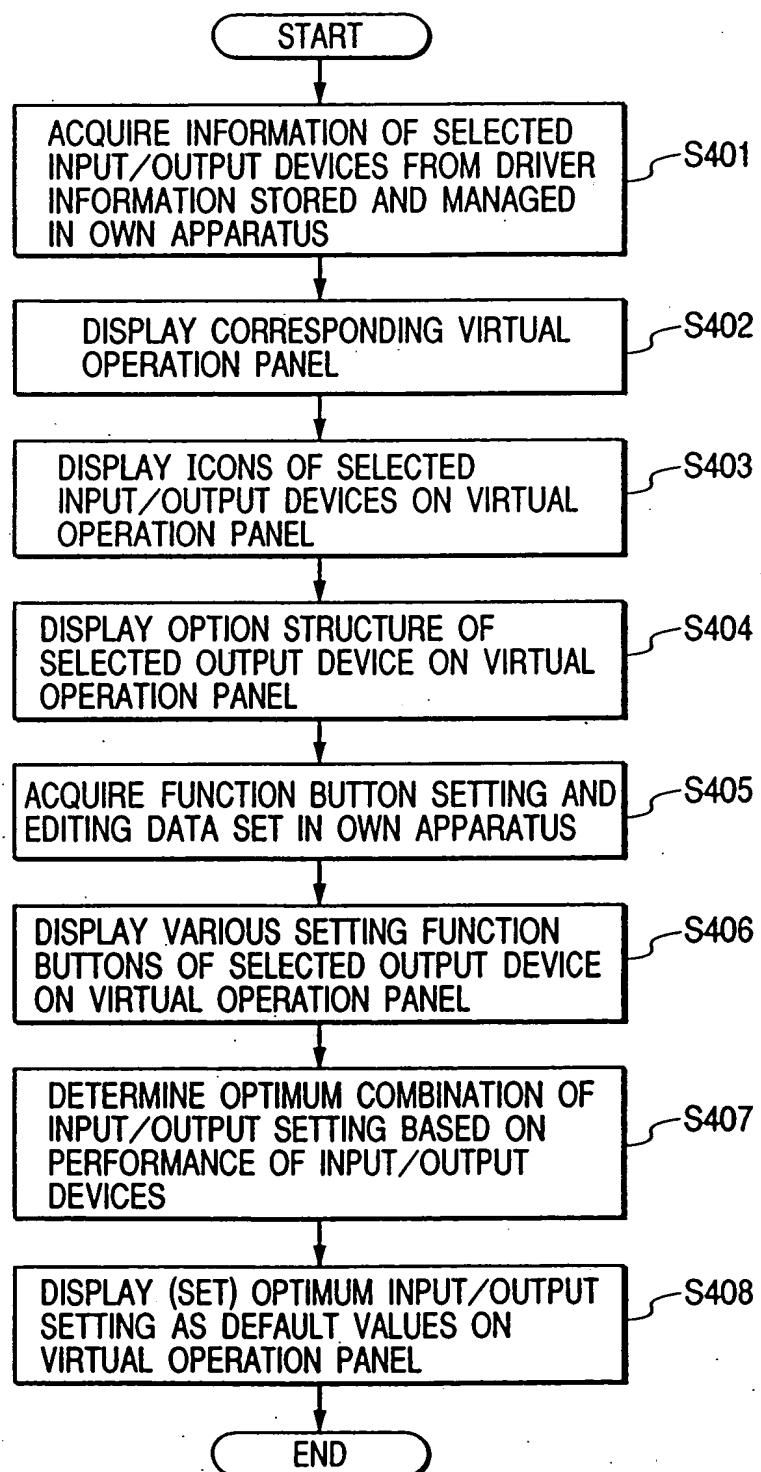


FIG. 35

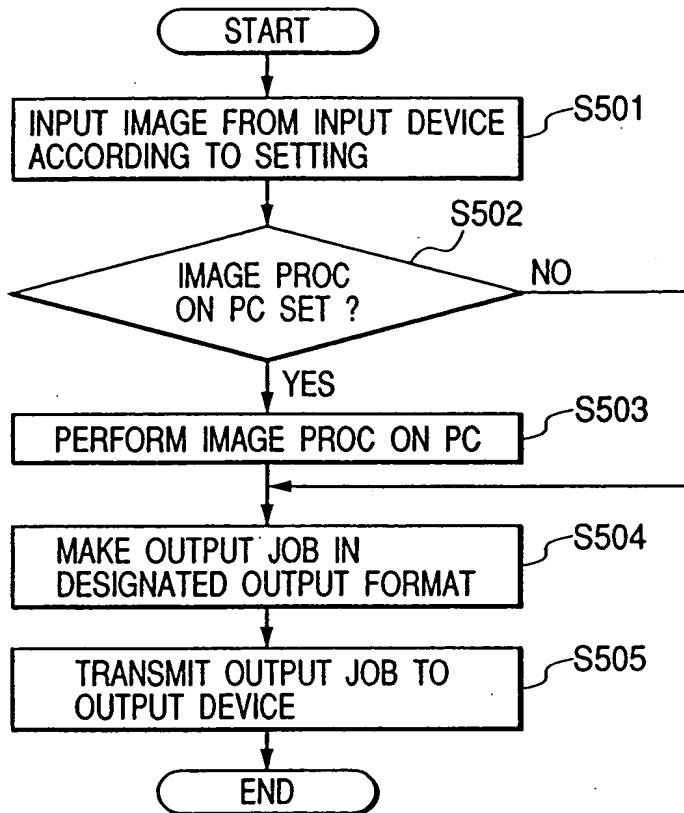
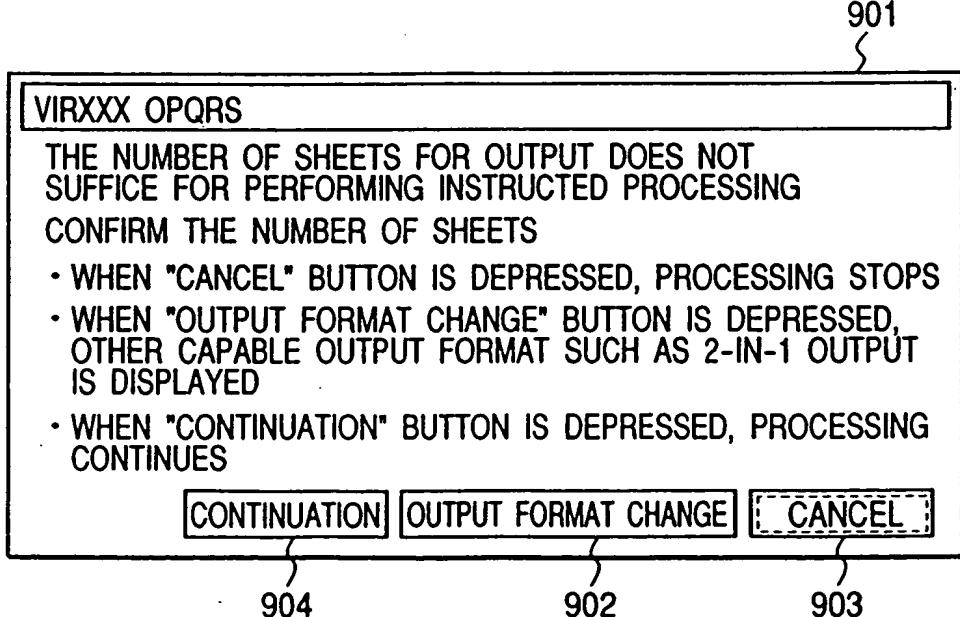
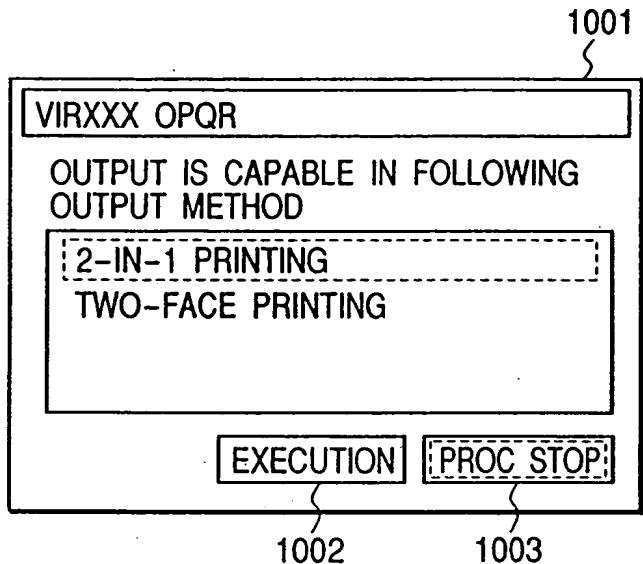


FIG. 36



*FIG. 37*



*FIG. 39*

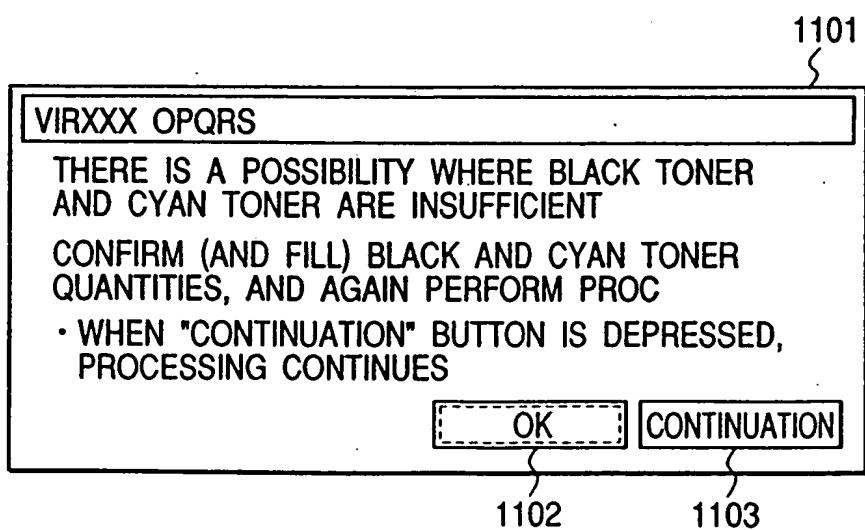


FIG. 38

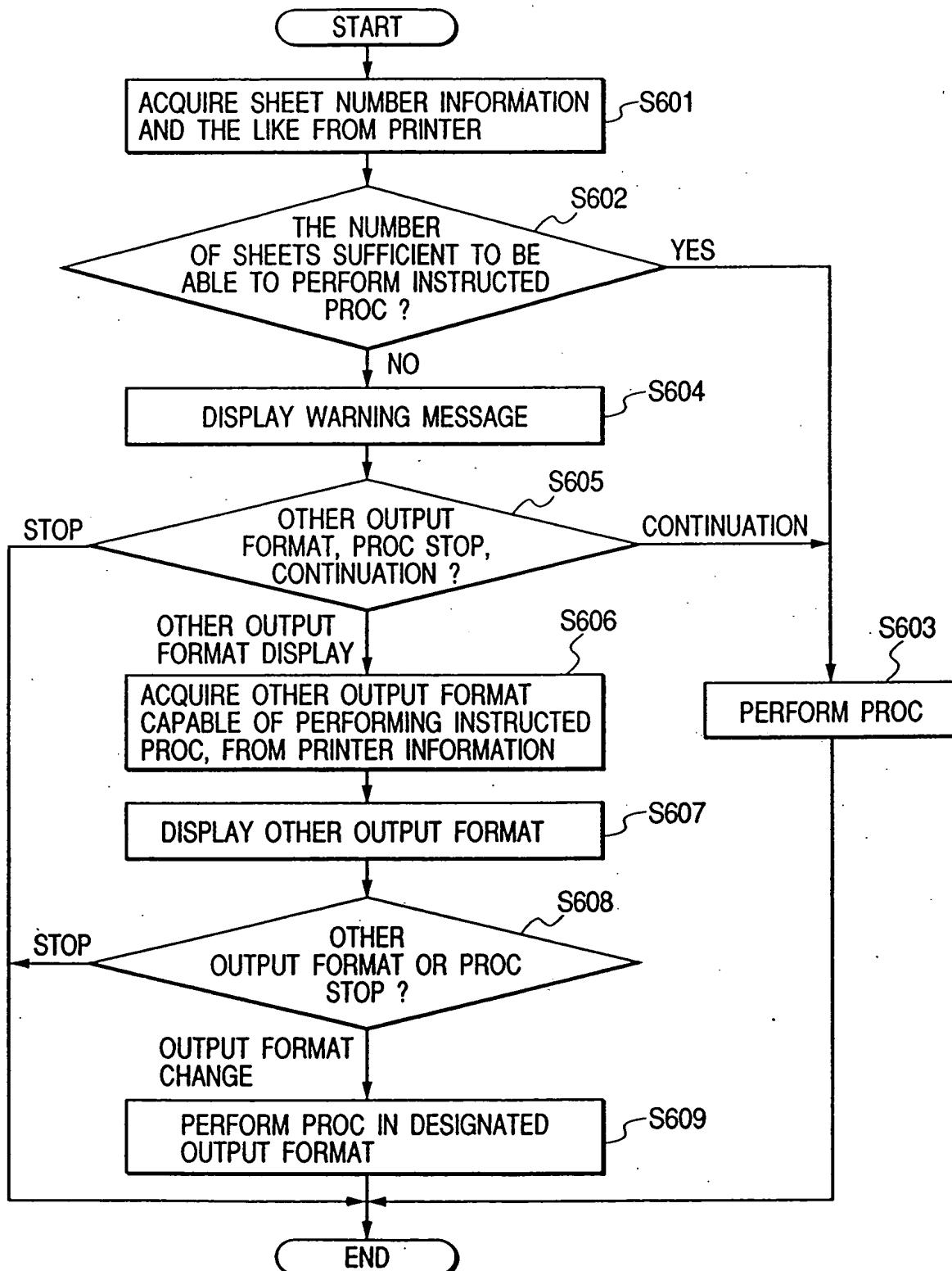


FIG. 40

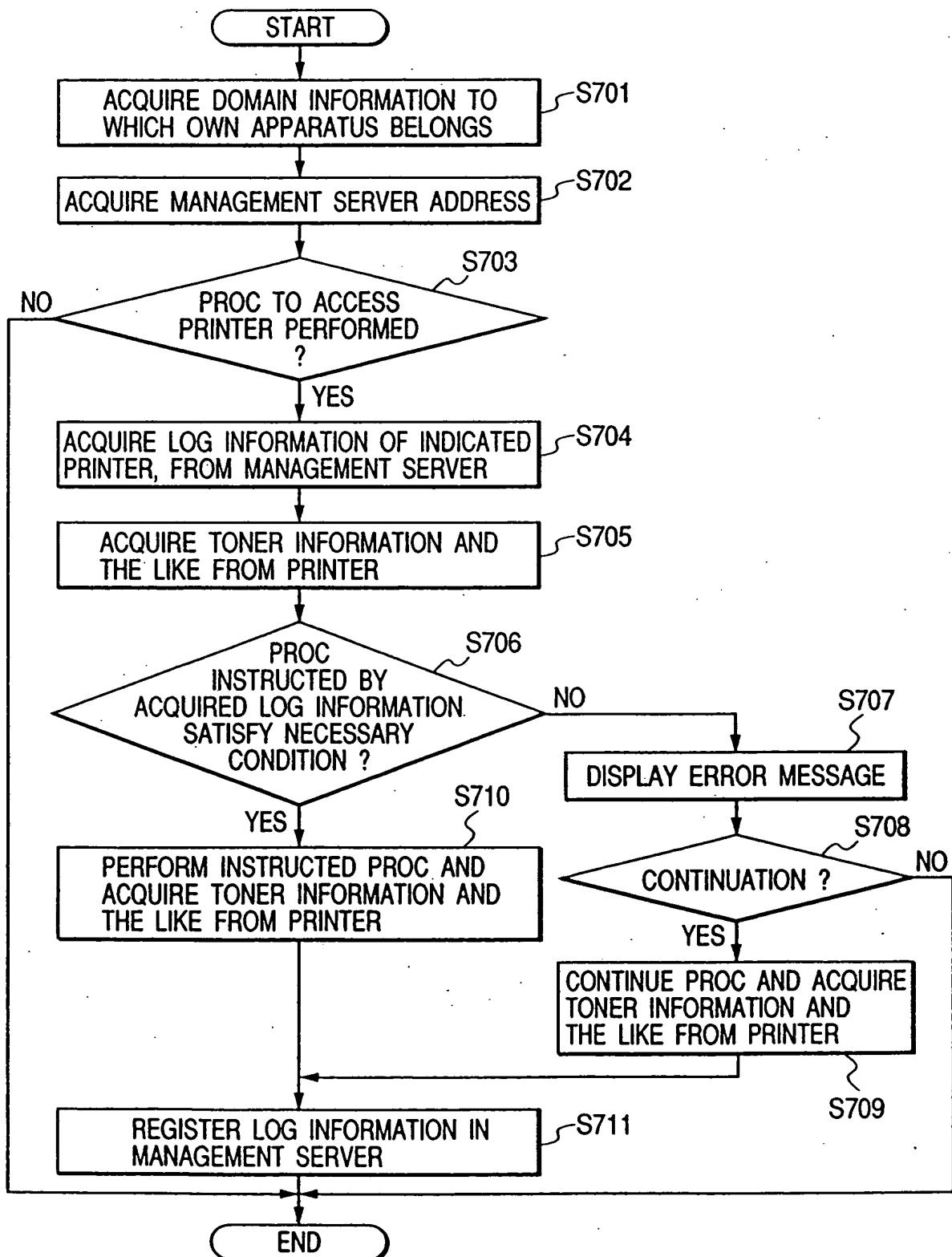


FIG. 41

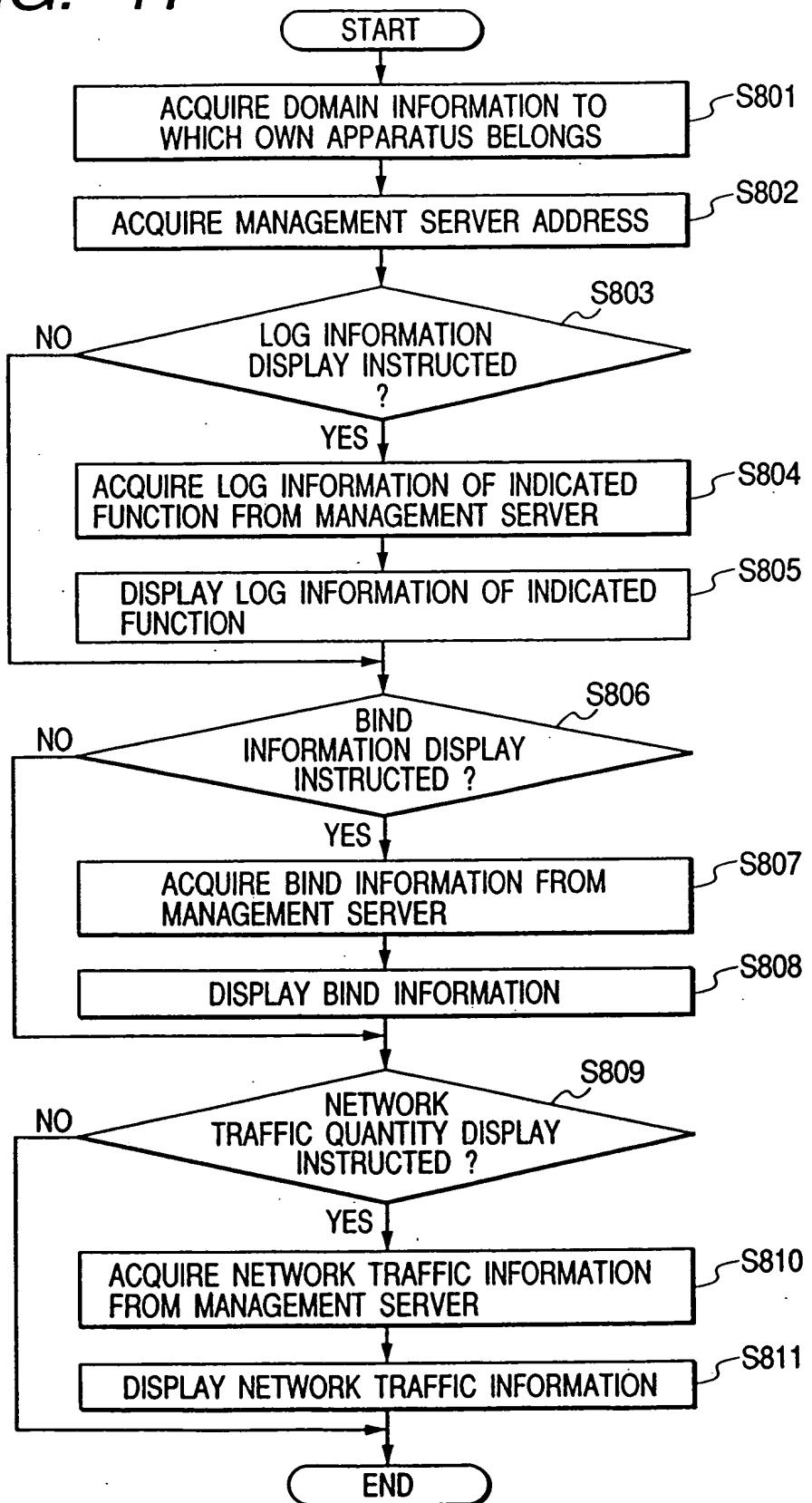


FIG. 42

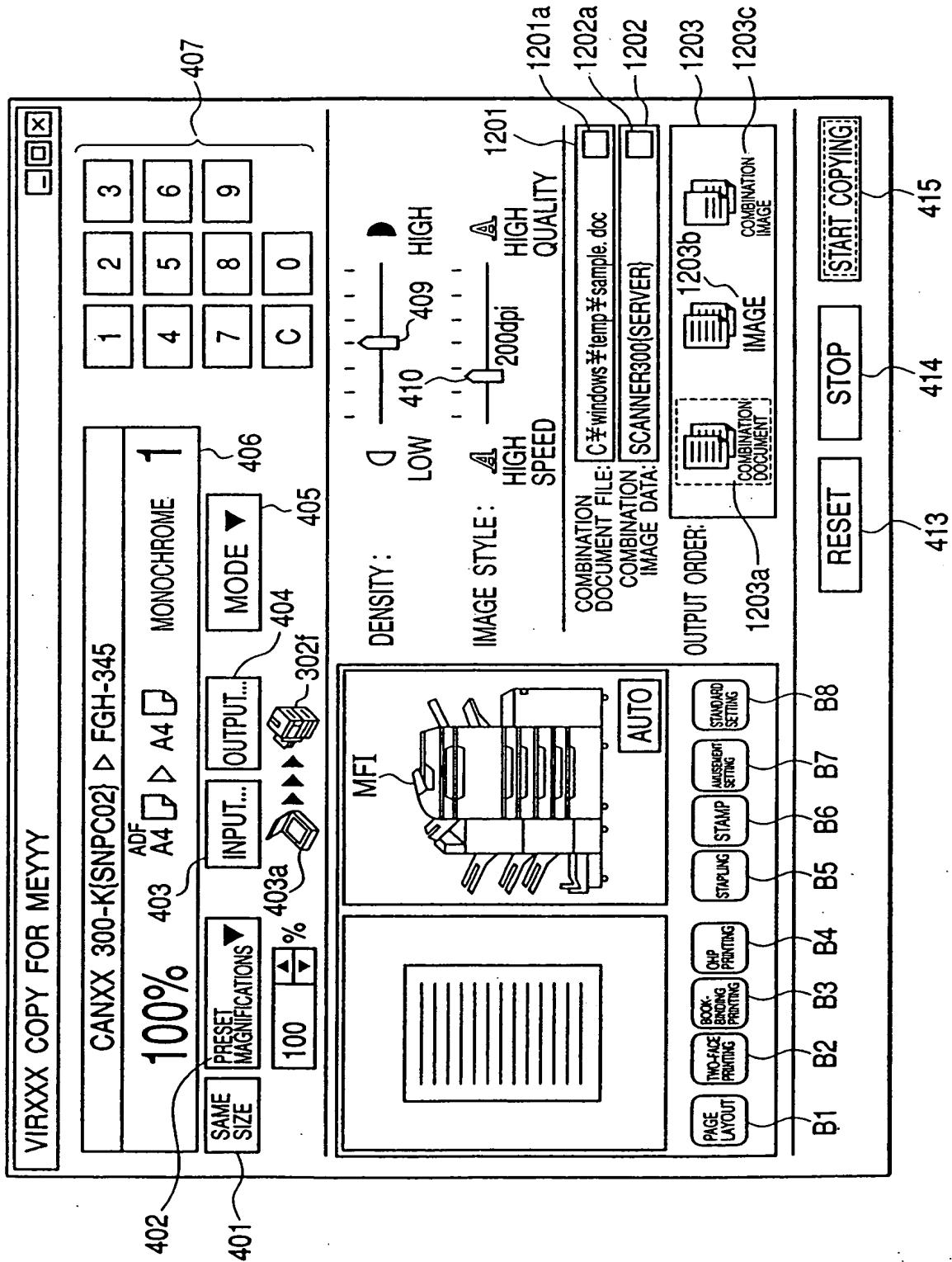


FIG. 43

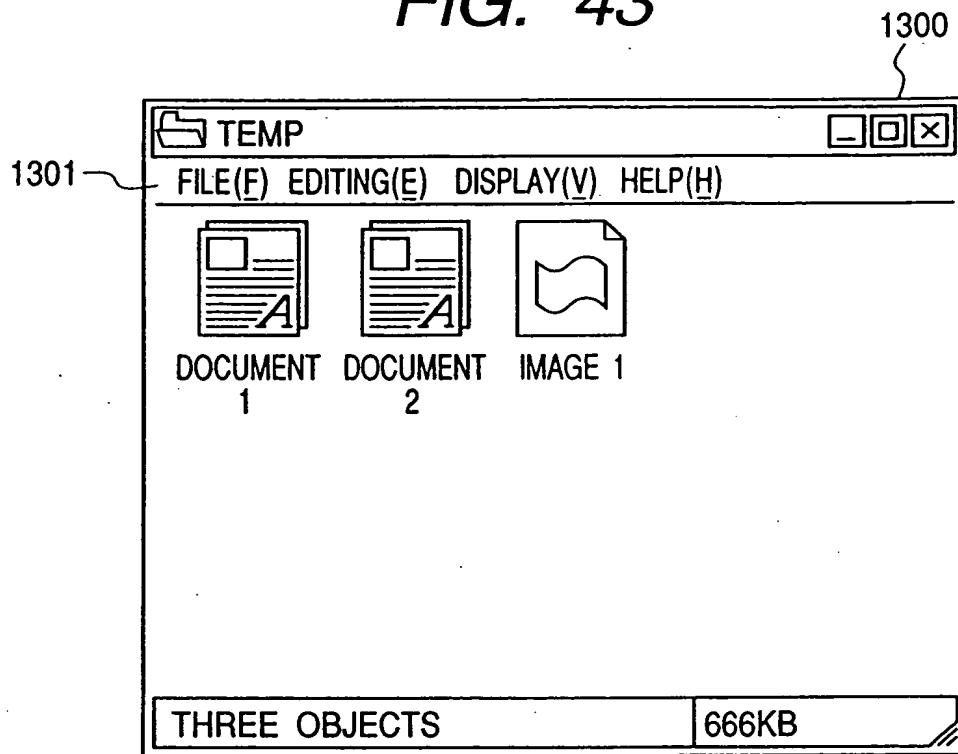


FIG. 44

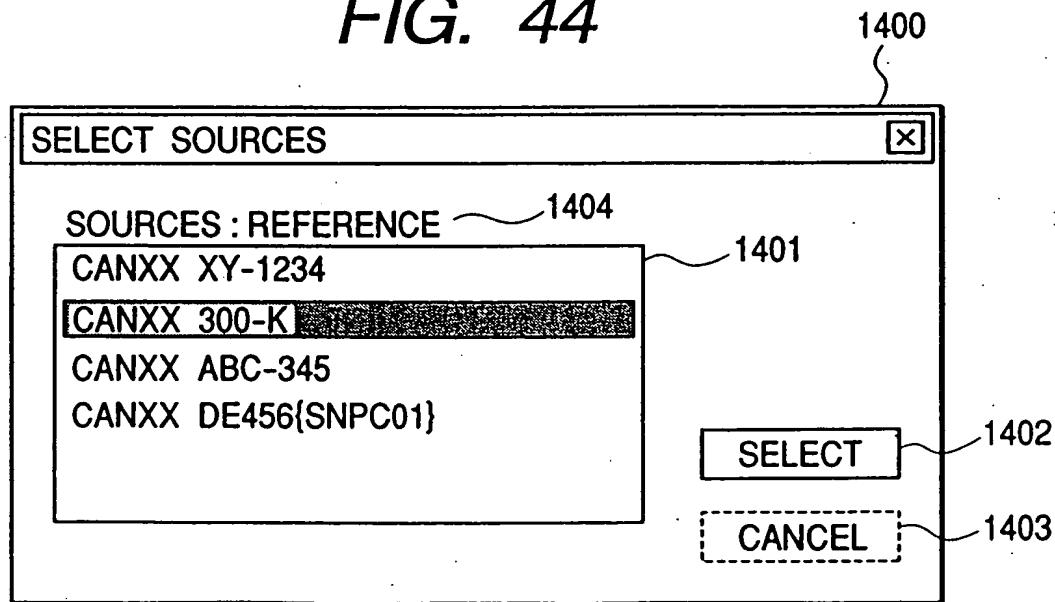
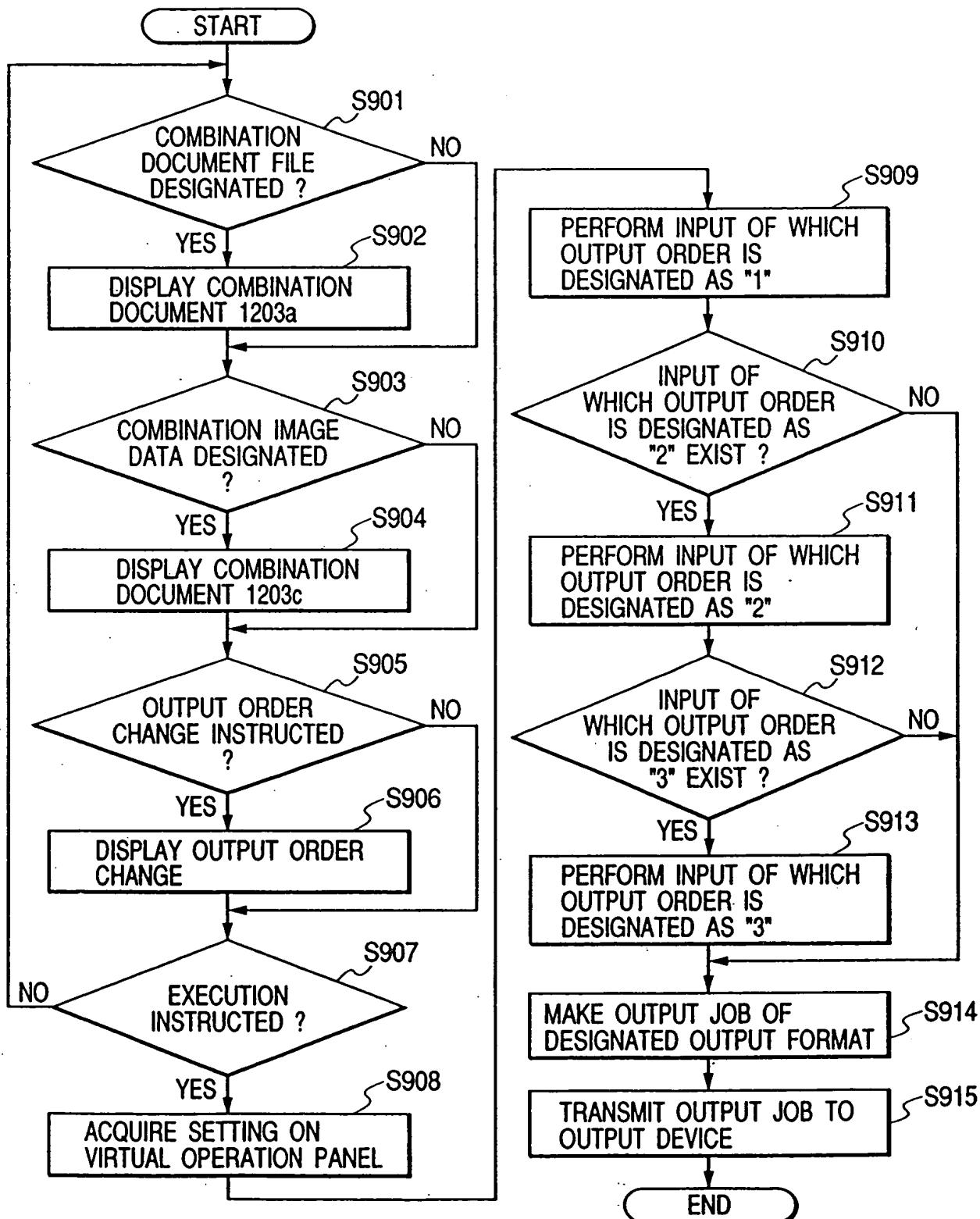


FIG. 45



## FIG. 46

STORAGE MEDIUM SUCH AS  
FD, CD-ROM OR THE LIKE

DIRECTORY INFORMATION	
1ST DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF CHART SHOWN IN FIG. 9
2ND DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 32
3RD DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 34
4TH DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 35
5TH DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 38
6TH DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 40
7TH DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 41
8TH DATA PROC PROGRAM	PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 45